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The

# CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2951  
VOL. CXXV

AUGUST 29, 1936

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

RAZOR FITS HERE

NO SCREWS—NO NAILS—EASILY FIXED

BRUSH STANDS HERE

KEEP USED BLADES HERE

This showcard complete with fixture **FREE**

**WILLIAMS SHAVING FIXTURE**  
(PATENT APPLIED FOR)

BRUSH STANDS HERE

KEEP USED BLADES HERE

RAZOR FITS HERE

**SPECIAL OFFER!**  
WITH WILLIAMS MARBELITE SHAVING STICK  
**1/6**

At Last! A SAFE PLACE FOR OLD BLADES

NO SCREWS—NO NAILS—EASILY FIXED

## This showcard proved a winner

*Tests have shown that it sells on sight!*

Williams got out the shaving fixture that appeals to any man at a glance. No wonder that tests proved this showcard a successful eye catcher and a seller. The actual shaving fixture is attached to the showcard. It explains itself, all your customers want to know is on the card. No long-winded explanations necessary—it sells itself!

### TERMS ON THIS SPECIAL OFFER

3 doz. standard parcel Williams' Marbelite Shaving Fixture complete with stick at 18/- per doz. less 33 1/3% together with two showcards complete with fixtures DIRECT ONLY or smalls from your wholesaler.

DELIVERY END SEPTEMBER.

Sole Distributors:

**SCOTT & BOWNE, LTD.**

10 STONECUTTER STREET, E.C.4

Write now, only a limited number of showcards available.

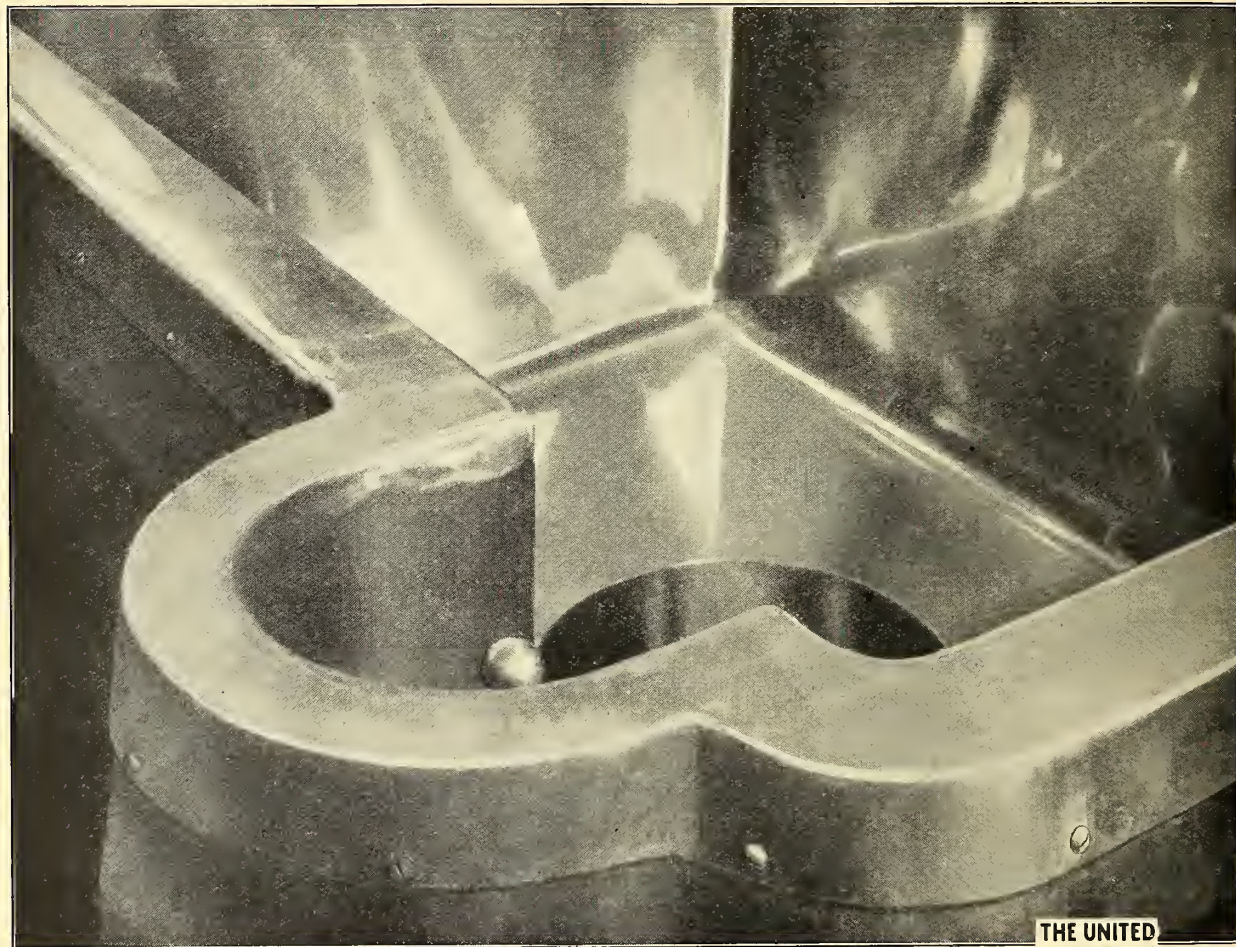


# This Stainless Steel can be welded

For welded vessels use "Silver Fox" Nos. 22 and 24. They are entirely free from weld-decay, and this quality is achieved without material additions of extra alloying elements, so that they are ductile, easily worked, take a good polish and have the highest resistance to corrosion. They are thus suited to the fabrication of the largest tanks and vessels.

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**"SILVER FOX"**  
*New Process*  
**STAINLESS STEEL**

*for*  
**all welded plant**

can be welded by gas, arc,  
butt, seam and spot welding  
processes.

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**STEEL**  
COMPANIES LTD

SAMUEL FOX & CO. LTD. Associated with The United Steel Companies Limited STOCKSBRIDGE, NR. SHEFFIELD

® SFX.5



# THE BABY FOOD BUSINESS RETURNS TO THE CHEMIST!



thanks to

# OSTERMILK

## the successful baby food



New show material is now available to Ostermilk stockists. The showcard above, in full colour, brings out the value of the two Ostermilk foods for continuous progress (No. 1 for young babies; No. 2 for older babies).



Here is a smaller, though equally appealing, card. It is a very useful size (9 ins. x 8½ ins.), in two planes. Both the above will gladly be sent with a supply of Baby Books (112 pages) to any Ostermilk stockist on request.

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The chemists who have been successful got behind Ostermilk because they knew that dairy competition could only be met by offering a superior food at the same price as dairy milk . . . Ostermilk was the product they needed—a first quality milk food containing everything provided by the most expensive foods, yet costing only 2/- for a 1-lb. tin making nearly six pints.

Ostermilk has amply justified the efforts of all stockists and it continues to do so. It is backed by successful advertising, and a successful "customer-making" scheme which costs the chemist nothing.

Write to-day for full particulars of our scheme, and take your place among the successful chemists who are already making worth-while profits out of Ostermilk.

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX

# UNBROKEN SERVICE

*from JANUARY  
to DECEMBER*

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In rain and storm, with every kind of rough usage, the Raleigh Carrier fulfils its duty silently and efficiently month after month with the very minimum of attention. This is no ordinary cycle with a carrier attachment. It is a machine built specifically for an individual job—that of carrying heavy loads quickly and safely under all weather conditions. The Raleigh's strong construction, skilful craftsmanship and rich finish are characteristics leaving no doubt as to its absolute dependability.



**STANDARD CARRIER** Price **£6.19.6** Cash  
22-in. frame (as illustrated).

Deferred Terms **5/-** down and 12 equal monthly payments of 13/7.

## LOW GRAVITY CARRIER

*At same price and terms as above. 22-in. frame.*

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# RALEIGH

## THE ALL-STEEL BICYCLE

THE RALEIGH CYCLE COMPANY LIMITED, NOTTINGHAM. (Depots and Agents Everywhere)



# Every Reader a Buyer OF BEAUTY AIDS

## FREE BOOK

### A GUIDE TO THE WOMEN'S MARKET

Some very interesting facts regarding WOMAN & BEAUTY are given in TO-DAY'S SEARCHLIGHT — the most useful guide to the women's market ever published. Every advertiser should have this book on his desk. The number available is limited—if you would like a copy, please write AT ONCE.

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## 180,000 Copies

The press day is SEPTEMBER 18th and early booking is advisable—bookings are sure to be heavy. Space is being booked at the usual rate of

## £50 Per Page

(SIXTY POUNDS, NEXT or FACING MATTER)

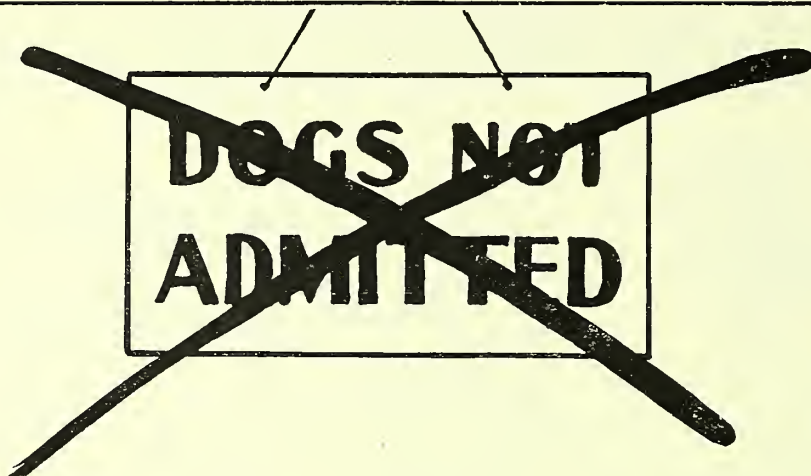
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**CHAS E. MANDER,**  
Advertisement Manager

**THE AMALGAMATED PRESS, LTD.**  
Fleetway House, Farringdon St., London, E.C.4







# Chemists are *selling* ★ *this* **DOG FOOD**...

*because* it is packed in a handy tin which takes up comparatively little space

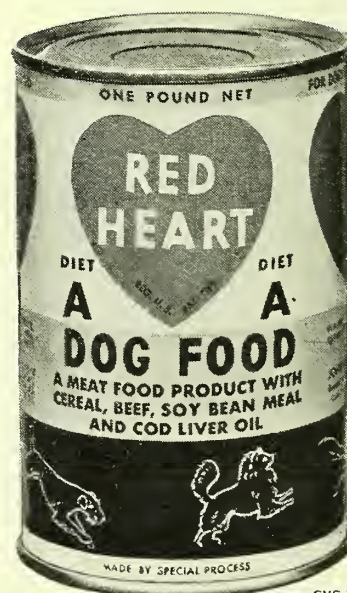
*because* it is a scientific dog food which they can recommend with confidence

*because* at least half their customers need to buy food for their dogs, and the additional sale is made without any extra cost

*because* "RED HEART" is sold with three distinct flavours, and is consequently different from any other food sold for dogs

★ You can obtain supplies of "RED HEART" from your Wholesaler, or if you have any difficulty in obtaining, write for trade terms and free sample to :-

**JOHN MORRELL & CO. LTD.,**  
57 Victoria Street, Liverpool, 1, or  
10 Borough High Street, London, S.E. 1



CVS-23

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A MODERN TREATMENT FOR ARTERIO SCLEROSIS

This preparation has only been added to our list of therapeutical products after many and prolonged experiments conducted by our medical friends, to whom we gladly acknowledge thanks for valuable co-operative assistance.

TABELLÆ SPHYGMONE

Lowers blood pressure without depressing effects on the patient. We have had gratifying reports to the effect that treatment with Sphygmone lowers the systolic pressure with relatively little change in the diastolic, and hence a lower pulse pressure. Reports of general improvement in health in cases of SENILE ARTERIO SCLEROSIS are also to hand. The dose is one or two tablets 3 times a day. You can recommend these tablets with confidence in all cases of ARTERIO SCLEROSIS.

PRICE : 100 250 1,000  
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MANUFACTURING CHEMISTS

Bridge Street, MANCHESTER

'Phone : BLAckfriars 3895/6, 7435

'Grams : " Salicylate, Manchester."

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IODISED BRAND

## THROAT TABLETS

**THE THROAT TABLET**  
with a reputation of over  
a **QUARTER** of a  
**CENTURY**

**WIDELY ADVERTISED** in all the  
**LEADING PAPERS**  
**SHOWS A PROFIT** **60%**  
**OF OVER.....**

8½<sup>D</sup>/<sub>2</sub>

PER TIN  
P.A.T.A.

TAKE  
**'SURE SHIELD'**  
IODISED  
THROAT TABLETS  
8½ & 1/3 <sup>per tin</sup>

*You could have saved this*

**BE WISE - When you Iodise!**

INSIST ON

**"SURE SHIELD" IODISED THROAT TABLETS**

THROAT TROUBLES -  
Iodo-iodine solution -  
This is why you should  
use SURE SHIELD TABLETS

8½<sup>D</sup>  
1/3 <sup>per tin</sup>

1/3

PER TIN  
P.A.T.A.

TAKE  
**'SURE SHIELD'**  
IODISED  
THROAT TABLETS  
8½ & 1/3 <sup>per tin</sup>

*You could have saved this*

**THOS. GUEST & CO. LTD.**  
CARRUTHERS STREET - MANCHESTER 4



**"MAKE BEAUTY A DUTY"**

*Bristow*  
LONDON

ESTABLISHED DURING

**7** REIGNS  
1777 - 1936

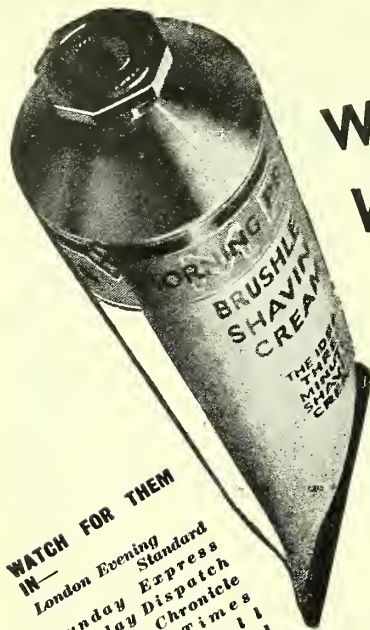
**CHRISTMAS PERFUMERY  
AND GIFT SETS**

BRISTOWS DESIRE TO NOTIFY THEIR MANY  
FRIENDS THEY ARE HOLDING DISPLAYS  
FOR THE XMAS TRADE AS FOLLOWS:

GLASGOW	ST. ENOCH HOTEL	INCLUSIVE	IN ATTENDANCE
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COVENTRY	KING'S HEAD HOTEL	OCT. 5-9	H. T. RENDELL
LONDON	MAPPIN HOUSE, 158 OXFORD ST., W.1	OCT. 12-16	S. T. HALL
		PERMANENT	A. H. PECK

At which they hope to have the pleasure of your visit

*Bristow*  
LONDON



**WATCH SALES SOAR!**

**WATCH YOUR STOCKS!**

New National Advertising Campaign  
to consolidate the success of **MORNING PRIDE**

"Morning Pride" has taken premier place in the shaving cream market. First in public favour "Morning Pride" is second to none in rapidly increasing sales.

Look to your stocks and be sure of your share of profits from this new wonder shaving cream.

**WATCH FOR THEM IN—**

- London Evening Standard
- Sunday Express
- Sunday Dispatch
- Sunday Chronicle
- Sunday Times
- John Bull
- Sunday Post
- Sunday Weekly Herald
- Glasgow Field
- Scottish Field
- Tablet
- Til Bits

**MORNING PRIDE**

REGD.

**THE RAZOR READY BRUSHLESS SHAVING CREAM**  
PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

For particulars of attractive Initial Order terms write 1

**SOLE DISTRIBUTORS · FASSETT & JOHNSON LTD**

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**FOR OVER 80 YEARS - A REGULAR SELLER!**



Proud of our reputation of over 80 years constant selling, to-day Beetham's LAROLA is more than ever in demand. Backed by the biggest advertising of any preparation for beautifying the hands and face, LAROLA is still unequalled in quality and reputation. Prevents sunburn, softens rough skin, cleanses and revitalises the complexion and is ideal for baby's toilet. Purchase direct or through your usual wholesaler, or send for price list of all Beetham's Preparations.

BEETHAM'S  
**Larola**

1/6 and 2/6 a bottle

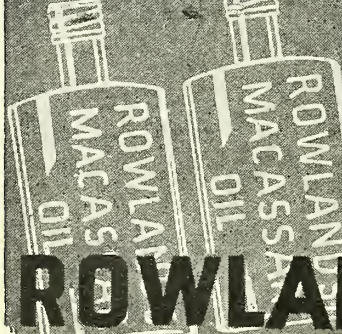
A Postcard request to M. Beetham & Son, Cheltenham, will bring you:—

Display Stand, Showcards, also Leaflets & Booklets for distribution to your customers

**DISPLAY**  
and link up  
with our  
constant  
advertising in

- Daily Mail - Tatler -
- Sketch - Illustrated
- London News - Good
- Housekeeping - Woman
- & Beauty - Britannia &
- Eye - Woman's Journal
- and 50 other magazines
- and periodicals cover-
- ing the U.K.

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ROWLAND'S MACASSAR OIL has maintained its popularity for over 140 years as the premier Hair tonic and dressing. You will do well to stock this famous preparation, for, being well advertised, you will be certain of regular repeat orders.

*It does not make the Hair sticky.*

A. ROWLAND & SONS, LTD.

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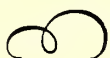
**ROWLAND'S MACASSAR OIL**



# M O R N Y

*Fine Perfumery*

1936



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BELFAST	ROYAL AVENUE HOTEL	Mr. J. A. WALSH	September 14th-18th
BIRMINGHAM	MIDLAND HOTEL	Mr. K. MICHAEL	September 21st-25th
BOURNEMOUTH	GRAND HOTEL	Mr. P. V. ALBRECHT	October 5th-9th
BRISTOL	ROYAL HOTEL	Mr. K. MICHAEL & Mr. P. V. ALBRECHT	September 28th- October 2nd
CARDIFF	PARK HOTEL	Mr. K. MICHAEL	October 5th-9th
EDINBURGH	ROYAL HOTEL	Mr. W. L. GRAY	September 7th-11th
GLASGOW	ROYAL HOTEL	Mr. W. L. GRAY	August 31st- September 4th
HULL	NEW MANCHESTER HOTEL	Mr. A. WITHY	October 6th and 7th
LEEDS	GREAT NORTHERN HOTEL	Mr. A. WITHY	September 29th- October 1st
LIVERPOOL	ADELPHI HOTEL	Mr. A. WITHY	September 21st-25th
LONDON	MORNY HOUSE	Mr. J. P. FRENCH & Mr. A. BRYDEN-BROWN	October & November (By Appointment)
NEWCASTLE	201 Regent St. COUNTY HOTEL	Mr. W. L. GRAY	September 22nd-24th

MORNY LTD., 6 New Burlington Street, London, W.1



# CHANGE OF ADDRESS

as from AUGUST 24th, 1936

NEW ADDRESS:

**BILTON ROAD,  
PERIVALE,  
GREENFORD,  
MIDDX.**

NEW 'PHONE NUMBER:

**PERivale 2241** (Three lines)  
PRIVATE BRANCH EXCHANGE.

**REINE DES CREMES  
LIMITED**

**LA REINE  
DES  
CREMES**

**LA HOUPPE LTD.**

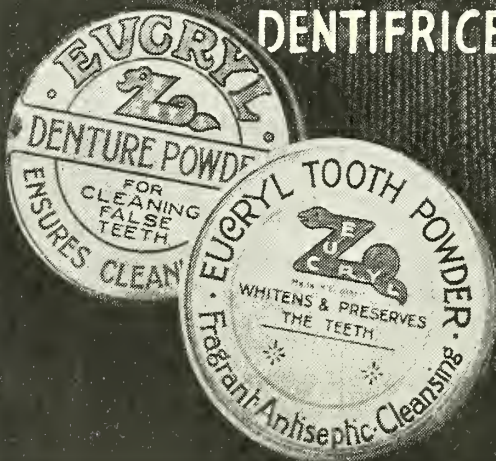
**"MARQUISE"  
POWDER  
PUFFS**

**MARCEL FRANCK  
& CO. (LONDON) LTD.**

**"SUPER FIZZ"  
"ESCALE"  
SPRAYS**

# EUCRYL

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**43%**

BOUGHT  
ON  
DISPLAY  
TERMS  
—YIELD—

PROFIT ON  
BUYING PRICE

**75%**

**EUCRYL LTD.** Manufacturing Chemists, **SOUTHAMPTON**

SUMMER DAYS BRING  
INCREASED DEMAND

- HOLIDAYS
- CRUISES
- TOURING, etc.

all mean more sales of

**'DAWN'**  
Regd.

**RAVEL PROOF  
FACE CLOTHS**

A face cloth worth selling. Each wrapped separately in transparent paper ready to hand over. "Dawn" never get "Slimy" or ravel. Beautiful range of delicate colours. Retail at 6d. and show good margin. In this attractive counter display outer containing 1 dozen assorted colours, from your usual wholesaler.



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105/107 Princess St., MANCHESTER

London Agent: G. H. Bolton, 28 Falcon Square, Aldersgate St., E.C.1



**THREE CHEERS**  
for the  
three best  
shilling  
brushes

Everyone's own pet shape  
—for only a shilling. Trans-  
parently sealed so no one  
can touch it till you do.  
Coloured, so you know  
which is yours at a glance.  
Equipped with well-trained  
bristles that know their place

**HALEX**  
the bristles stand up!

Halex Toothbrushes—Ed. to 2/—also dis-  
tinct shapes in all Halex Dental Plate  
Brush in six colours—2/6. Halex Shaving  
Brushes—Pure bristles 5/6. Pure badge  
15/6. Ladies' Pneumatic Hairbrush 12/6.  
Men's Military Pneumatic Hairbrush  
10/6. Halex is the Registered Trade  
Mark of THE BRITISH XYLONITE  
COMPANY LIMITED, HALE END, E.4

*tempting twelve million!*

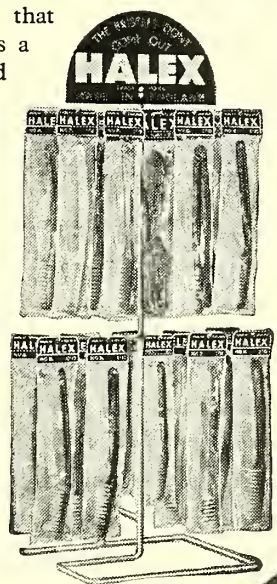
The Halex advertisements do everything but talk. Wherever they appear—and they're appearing to 12,595,755 readers this year★—they get their simple, forceful message right home. It means that practically everyone who comes into your shop has a strong pro-Halex bias. And with this attractive stand on your counter the brushes almost sell themselves.



- ★All these papers carry Halex advertising in 1936:
- |                       |                       |                         |
|-----------------------|-----------------------|-------------------------|
| <b>RADIO TIMES</b>    | <b>Daily Mirror</b>   | <b>Modern Woman</b>     |
| <b>Daily Express</b>  | <b>Home Chat</b>      | <b>People's Friend</b>  |
| <b>Daily Mail</b>     | <b>Home Notes</b>     | <b>Daily Sketch</b>     |
| <b>Daily Herald</b>   | <b>Lady</b>           | <b>Glasgow Bulletin</b> |
| <b>News Chronicle</b> | <b>Miss Modern</b>    | <b>Everywoman's</b>     |
| <b>Wife and Home</b>  | <b>Woman and Home</b> |                         |

A total circulation of 12,595,755!

Order from your usual wholesaler or from THE BRITISH XYLONITE CO. LTD., HALE END, E4





# INFRINGED TRADE MARK

(Registered Number 539,588)

## APOLOGY

To Messrs. AYRTON, SAUNDERS & CO., LTD.,  
34 HANOVER STREET,  
LIVERPOOL.

(Copy)

Dear Sirs,

I write this letter to express my regret and apology to you for having infringed your Trade Mark "P.K.L.," registered in Class 3, in respect of liniment for human use, and I have by a document of even date with this letter entered into an undertaking not again to infringe your mark and not to supply any liniment other than yours when asked for "P.K.L."

Yours faithfully,  
(Signed).

Liverpool, July 30th, 1936.

### Sheffield's Newest Shaving Edge



Regd. Trade Mark 530,151/70025

RETAIL PRICE 1<sup>d.</sup> EACH; 6 for 6<sup>d.</sup>

Made on latest automatic machinery, ensuring utmost uniformity of keen edges, on Steel heat-treated under rigid scientific control . . . THE SMOOTHEST SHAVER . . .

SEND FOR FREE SAMPLE AND TERMS TO:

**DOMINION STEEL CORPORATION Ltd.**  
"FLEET" WORKS, QUEEN'S ROAD, SHEFFIELD  
(ADVERTISED ON L.P.T. 'BUSES)

Sole Distributor for London Area: L. H. Eyres, 465 Garratt Lane, S.W.18

Ask your Wholesale or representative will call.

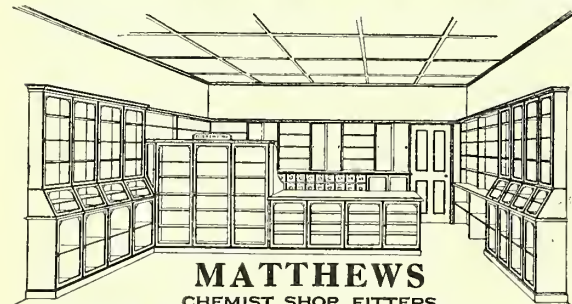
Phone: Macaulay 5086.

Cables: "SIMIE-BRUSH," LONDON.

INCREASE YOUR  
**SHAVING  
BRUSH  
SALES**



**SIMPSONS**  
Gold Medal Shaving Brushes  
53, CLAPHAM HIGH STREET  
LONDON, S.W. 4



**MATTHEWS**  
CHEMIST SHOP FITTERS

14 & 16 MANCHESTER ST.,  
LIVERPOOL, 1 Tel.: Cent. 2695

## LIVERPOOL SCHOOL OF PHARMACY



Principal:

**H. HUMPHREYS - JONES,**  
F.I.C., F.C.S., Ph.C

Preparation for the Preliminary Scientific and Qualifying Examinations of the Pharmaceutical Society.

Next Session will commence on October 5th.

Six and nine months' Courses for the Preliminary Scientific.

Nine months' Course for the Chemist and Druggist.

Three months' Revision Courses for both Examinations.  
Book Early.

Full particulars from the Principal  
Blackburne Place, Liverpool 8



T O W H O M I T M A Y C O N C E R N

# BROOKS Rupture Appliances:

The name "BROOKS" is registered as a Trade Mark of the Brooks Appliance Co. Ltd. for use in connection with Rupture Appliances.

# WARNING!

Injunctions have been granted by the High Court of Justice restraining Traders from passing off Rupture Appliances or Trusses not the manufacture of the Brooks Appliance Co. Ltd. as if they were the Brooks Appliances manufactured by such Company and from using the term "Brooks pattern" or the word "Brooks" in connection with such appliances.



Brooks Rupture Appliances are obtainable only from the sole suppliers, Brooks Appliance Co. Ltd. 80, Chancery Lane, London, W.C 2 & Hilton Chambers, Hilton Street, Manchester.

## BATTLES' VERMIN KILLER

Pharmacy & Poisons Act, 1933

TO ALL OUR FRIENDS

Gentlemen. As you will appreciate, certain Rules and Regulations in the above Act have necessitated a change in one of the principal ingredients of Battles' Vermin Killer. This has now been done, and after several tests, we are satisfied the article as it will be prepared and marketed in future, will be as efficacious as in the past, and therefore can be recommended by you to your customers with every confidence. Prices per packet will remain the same, and as the preparation now comes under Part II of the Schedule, the somewhat irksome business to purchasers of signing for it will be no longer necessary; we feel that if anything the demand for it should increase. We have circularised our many Wholesale customers in the matter, and of course our Advertisement Programme to the Public will be continued as hitherto. Having been before the Public now for over eighty years with the existing Vermin Killer, we cannot afford to market an inefficient substitute, and we therefore confidently ask for the continuance of your valued custom as in the past years. Thanking you in anticipation, We remain, Yours faithfully.

BATTLES LTD., STONEBOW, LINCOLN

## HARVEY'S Horse Remedies

P.A.T.A. Protected Prices.



THESE Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of the best Private Horse Owners in the United Kingdom and Abroad.

Supplies through all Wholesale Houses.

**HARVEY & CO. (DUBLIN), Ltd., DUBLIN.**

## Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE

### DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	
Virus for Mice only .. single tube, 1/6	9/-
3 tubes, 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

### Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
" 4/6 ..	3/9 ..

### HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices	25% Monthly Account, or 33 1/3% Cash with Order.	
Retail	Monthly A/c	Cash with Order
1/2 gall. tins .. 10/-	7/6	6/8
1 " " .. 15/-	13/6	12/-
5 " " .. 80/-	60/-	55/4

### DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.

Retail Prices (Protected)	Wholesale Prices
In cartons 9d. each	6/9 per doz.
" 1/6 ..	13/6 ..
" 3/- ..	27/- ..

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

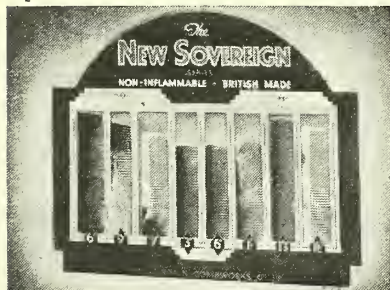
**HALLER LABORATORIES, LTD.**

325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London." Telephone: Hop 2717

# REAL HORN COMBS

## AT HALF PRICE



An exceptional purchase from the well-known Aberdeen manufacturers of their **NEW SOVEREIGN** series **COUNTER DISPLAY CABINETS**, usually

Sold at **50/-** ENABLES US TO OFFER THEM NOW FOR **25/-**

The price of 25/- is carriage paid.

5% discount allowed for "Cash with Order" or "C.O.D."

The "FINEST SILENT SALESMAN," as this beautiful cabinet has been aptly named, contains **ONE DOZEN EACH** of **8 LINES** of high quality Horn Combs, from  $5\frac{1}{2}$  in. to 7 in. long, usually retailed at prices from 3d. to  $1\frac{1}{6}$  each, bringing in all - - - - - **78/-!**

**TAKE ADVANTAGE OF THIS UNIQUE OFFER WHILE IT LASTS**

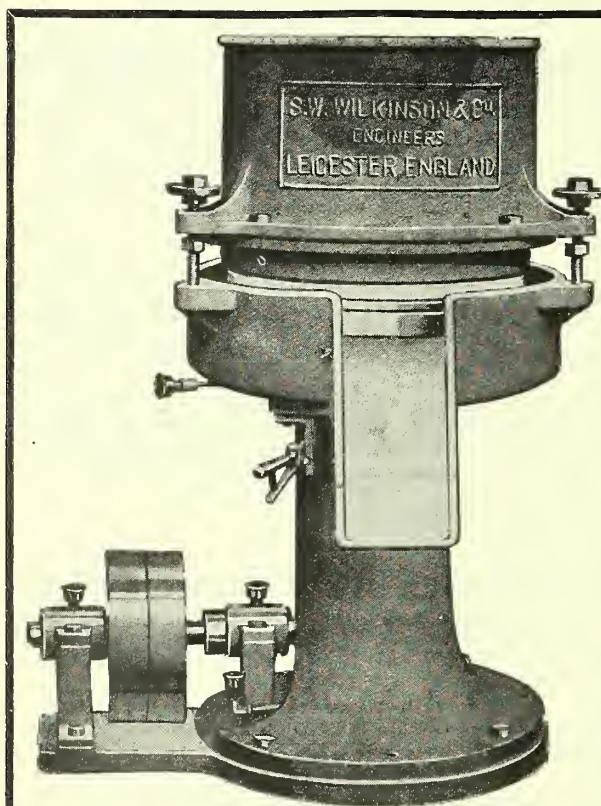
Representatives and Sole Wholesale Distributors appointed—

### **FLEXOLITE DISTRIBUTORS LTD.**

**FLEXOLITE HOUSE, 4 WELL STREET, LONDON, E.C.1**

Telegrams : Flexolite, London.

Telephone : National 9392



## The Latest Triumph in OINTMENT MILLS

### **SUPER SPEEDY MILL**

IN REGULAR USE ALL OVER THE WORLD

**T**HIS Machine is a combined Mixer and Grinder and is used very successfully in the production of all kinds of Ointments, Tooth Pastes, Beauty Creams, Patent Foods, etc.

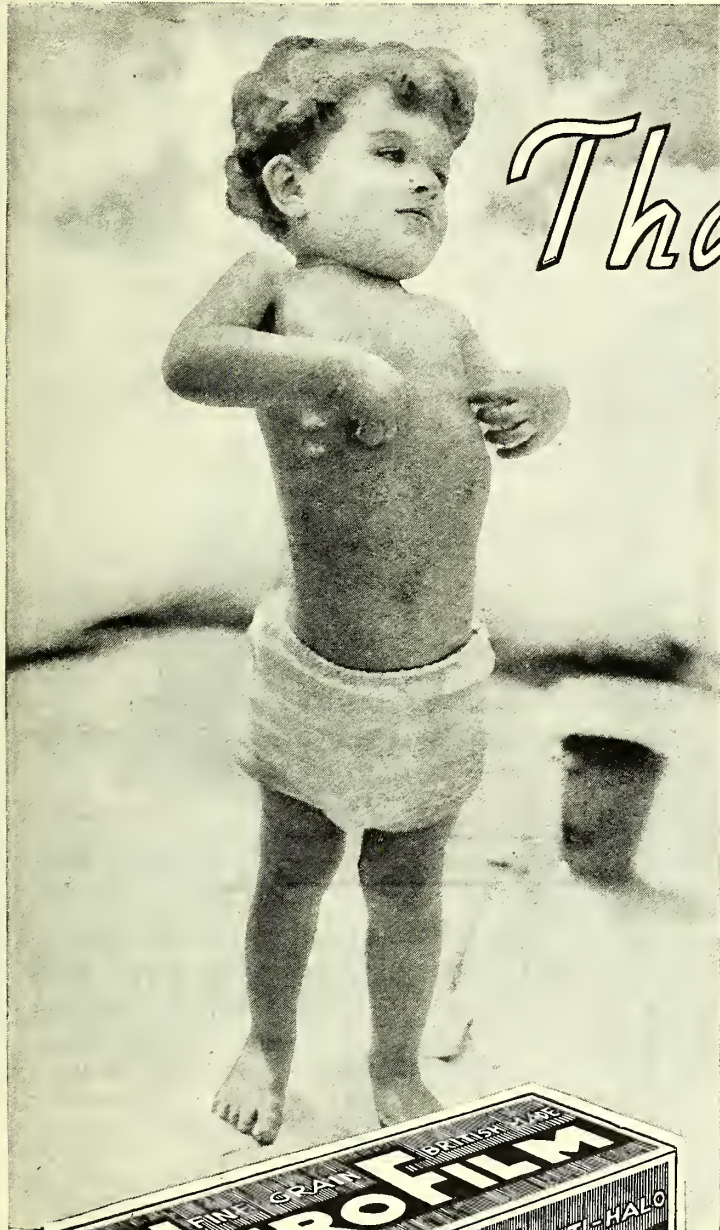
*Each Machine incorporates Thirty Years' Accumulated Experience*

**S. W. WILKINSON & Co.**

*Chemical Engineers and Specialists in  
Pharmaceutical Machinery*

**Western Road, LEICESTER**





*That's fine!*

Holidays—nine out of every ten Holiday makers carrying a Camera. Chemists in holiday resorts should have NURO Film ready on the spot—this master film gives better, crisper, clearer prints. NURO is the only film with “Lastic Latitude”—the amateur’s safeguard against exposure errors. Sell and recommend NURO Film—the master film that has amazed the photographic world.

Complete display material available.



SPEED  
27°  
SCHEINER

**NURO FILM**  
*Sensitive as Sight—British as the Flag*

NURO (Biggleswade) LTD. Biggleswade, Beds., Eng. Telephone: Biggleswade 234 Grams: “NURO,” Biggleswade

**IN ALL STANDARD SIZES & PRICES**





THE MARK OF ENTERPRISE IN PRINTING

## LABELS

We produce every type of Label and Seal that is required by the Chemist or Manufacturer.

## CARTONS

Write for samples of our "special offer" Salts' Cartons complete with Greaseproof Bags. Our range of Stock Cartons is very large and we are always very pleased to offer suggestions for special designs.

## FOLDERS

You should consult us if you are requiring original ideas for a Booklet or Folder.

## PACKING MATERIALS

We have all your requirements for packing your own lines, Greaseproof or Parchment Bags and Pockets, Bottle Wrappers plain or tinted, small Handbills, Plain Bottle Cartons and Plain Powder Skillets.

Head Office & Works  
**BURLEY RD. LEEDS 4**

Branches at  
London, Manchester  
Belfast & Dublin

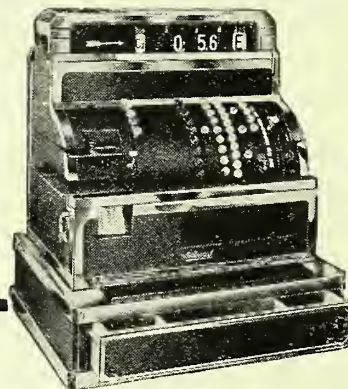
**ALF  
HARRISON  
& SONS LTD**

CHEMISTS AND ADVERTISING PRINTERS

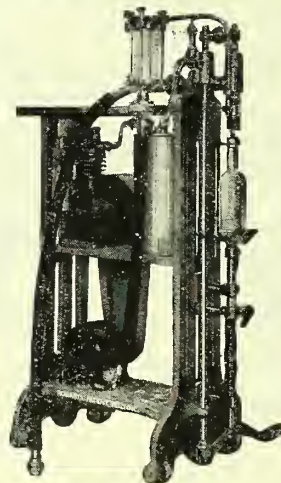
## IS IT *more profit?*

What is the reason for the fact that every month sees more chemists instal modern National Cash Registers? Is it MORE PROFIT . . . or some other great advantage? Unless you investigate you will never know! Act NOW—your profit is at stake. Full details await your request.

THE NATIONAL CASH REGISTER CO. LTD  
225 Tottenham Court Road, London, W.1



## ROBERTS' PATENT "LEO" VACUUM FILLER



for Glass, Stone,  
and Tin Bottles.  
Fills all sizes from  
drachm to quart—  
long, short or  
sprinkler neck.

Clean and Rapid  
No Over Filling  
Broken Bottles  
Rejected  
Easy to Clean  
Self Rinsing

WRITE FOR  
PARTICULARS

## Roberts' Patent Filling Machine

Company Limited

33 Roundcroft Street, Bolton, Lancashire

Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED



# These two Remedies are always backed

by ★ **BONUS TERMS**  
 ★ **NATIONAL ADVERTISING**  
 ★ **60 YEARS A HOUSEHOLD WORD**

POTTER'S ASTHMA & CATARRH REMEDIES



Consistently advertised in all the great national newspapers thus ensuring a big demand

P.A.T.A. 1/3, 11/- Doz.  
Packed in 1/2 Doz.

# POTTER & CLARKE LTD.

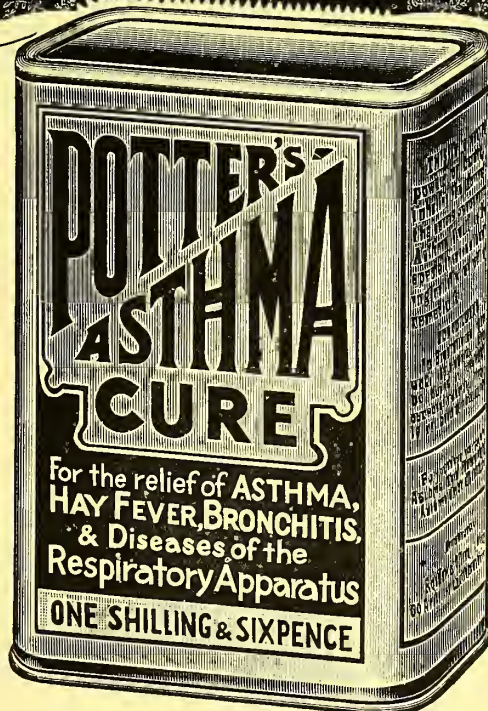
Retail 1/6, Wholesale 14/- doz.  
Packed in 1/2 Doz.

**60-64 ARTILLERY LANE, LONDON, E.1**

PHONE: BISHOPSGATE 4761 (5 lines)  
GRAMS: HOREHOUND, PHONE, LONDON

**77 DANTZIC STREET, MANCHESTER, 4**

PHONE: BLACKFRIARS 8734  
GRAMS: HOREHOUND, MANCHESTER



### BONUS TERMS

#### POTTER'S ASTHMA REMEDIES

On orders for 6 dozen Potter's Asthma Remedies and/or Catarrh Pastilles we offer a bonus discount of 5% (Journey account, or if no journey, monthly account) in return for a window display of these goods. The prices of Potter's Advertised Remedies are

- POTTER'S ASTHMA CURE 14/- doz.
- POTTER'S ASTHMA CIGARETTES 14/- doz.
- POTTER'S SMOKING MIXTURE 7/- doz.
- POTTER'S CATARRH PASTILLES 11/- doz.



IT PAYS THE CHEMIST TO DISPLAY  
**RENDELL'S**  
 A NAME KNOWN THROUGHOUT THE WORLD



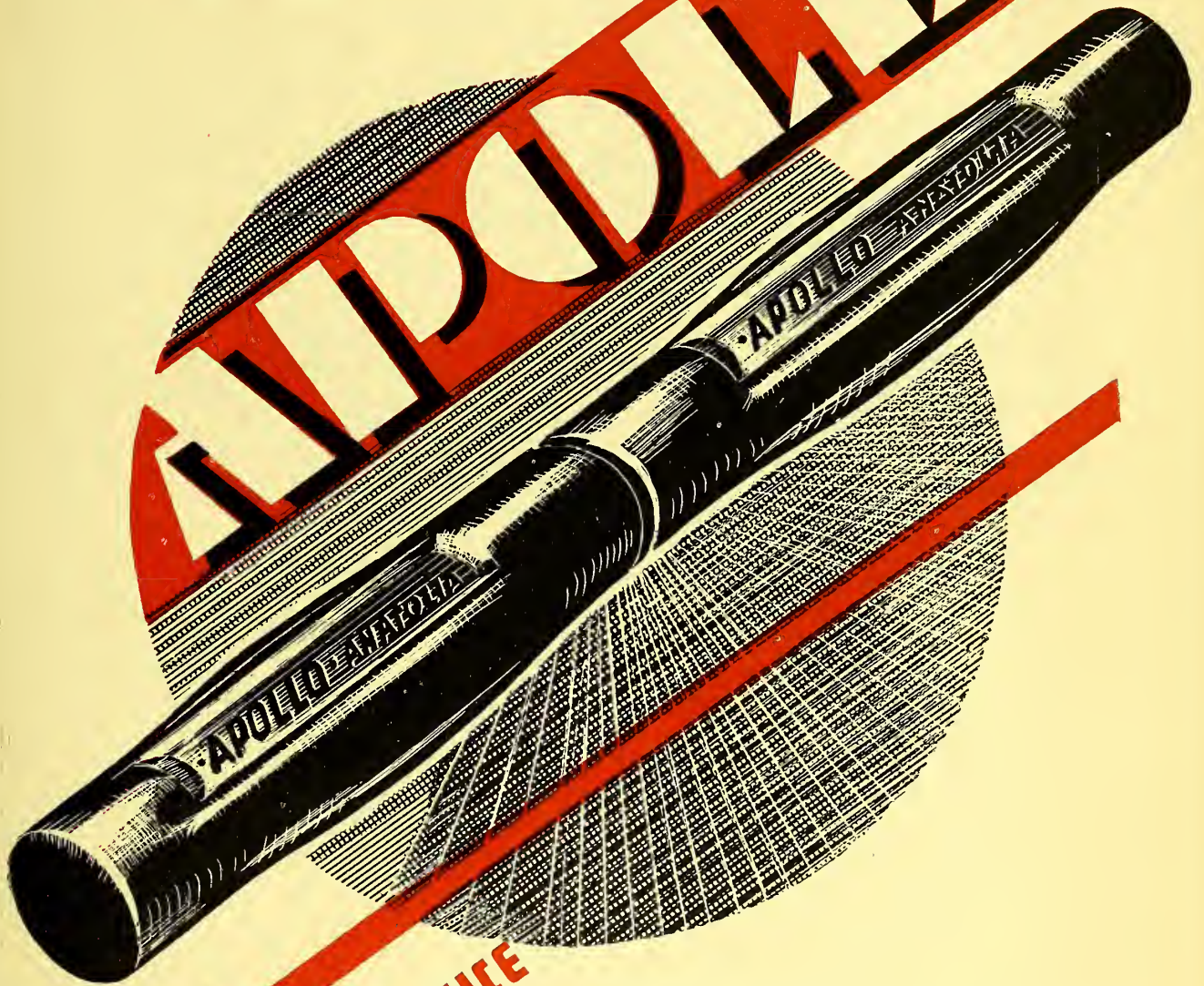
## RENDELL'S PESSARIES

Chemists can always recommend this product with complete confidence. It is approved by the medical profession and accepted by the public as the safest and best contraceptive. ● Increase your turnover by using our sales service. ● Special chemists' advertising material on request.

**W. J. RENDELL LTD**  
 L O N D O N



# Show & Sell



## PURE STICK LIQUORICE JUICE

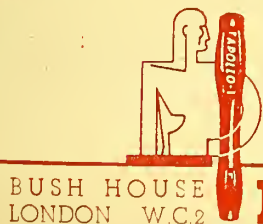
A SMOOTH, SOLUBLE, WELL - MADE STICK, GUARANTEED ABSOLUTELY FREE FROM ADULTERATION AND CONTAINING THE HIGHEST PERCENTAGE OF GLYCYRRHIZIN. THE CHEMIST WHO SELLS "APOLLO" BRAND KNOWS THAT HE IS GIVING HIS CUSTOMERS AN ARTICLE OF THE HIGHEST QUALITY.

STOCKED BY THE LEADING WHOLESALE HOUSES

MADE IN THE FOLLOWING SIZES :

1 oz. 2 oz. 3 oz. and 4 oz.

All sizes can now be obtained divisible if required.



BUSH HOUSE  
LONDON W.C.2

# MACANDREWS & FORBES LTD



SEAMED & SEAMLESS

SURGO

ELASTIC  
HOSIERY

TRUSSES

BODY BELTS

SUNDRIES

FOR SPECIAL  
GARMENTS MADE TO  
MEASURE WE MAINTAIN A  
**24 HOUR**  
SERVICE

Write for Catalogue

**SURGICAL HOSIERY CO., LTD**

RUSSELL ST. NOTTINGHAM :

PHONE: NOTTINGHAM 75903  
GRAMS: SURGICAL NOTTINGHAM



# 10% EXTRA DISCOUNT STERADENT



## NEW PACK

Improved Container      More Powder  
No Increase in Price      Better for Display

For Cleaning and Sterilizing False Teeth and Dental Plates

Recommended by the Dental Profession as the finest preparation ever produced for ensuring the complete cleanliness of false teeth and dental plates. Guaranteed harmless.

The following display discounts apply on the Trade Prices of 9/- per dozen (1/- size) and 15/9 per dozen (1/9 size) for 7 days' window or counter display.

**10%** on orders for **£2-0-0** and over at trade prices.

**5%** on orders for **£1-0-0** and over at trade prices.

Goods on display terms shipped and invoiced by us, or invoiced through wholesaler if desired. Attractive display material available.

Continuously and widely advertised in the National and Provincial Press. Sale of all stocks guaranteed.

STERADENT LTD., 10/15 CHITTY ST., LONDON, W.1      Telephone: Museum 6872 (3 lines)  
Telegrams: Steradent, Rath, London

## Christmas purchasing

*During the next few weeks our representatives will have the pleasure of showing you our range of new fancy merchandise, and we hope that you will be pleased with the values that we offer.*

**NERISSA** <sup>Regd</sup> **POWDER PUFFS**—a charming selection exquisitely presented. These should be the feature of your Xmas window displays. An original Showstand for handkerchief puffs is available **FREE**—write for particulars.

**Portia** <sup>Regd</sup> **HOT WATER BOTTLE COVERS**—a comforting improvement to any hot water bottle. Have you seen our “Golden Fleece” wool covers? They are very cosy and warm.

All lines obtainable through your usual wholesaler, but to avoid imitations **INSIST** on these brands.

184-192 GOSWELL ROAD, LONDON, E.C.1

**SOLPORT**  
BROTHERS LIMITED



# PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.

And All Other Grades To Suit Every Purpose.

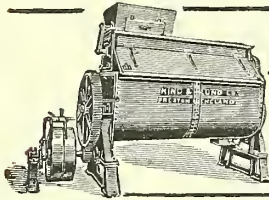
Prepared Chalk B.P. and Powdered Talc.

\*Phone: Mansion House 7300. Tel. Add.: "Levermore. Phone, London."

**A. LEVERMORE & CO. LTD.**

110 CANNON STREET, LONDON, E.C.4.

ABC Codes,  
6th Edition

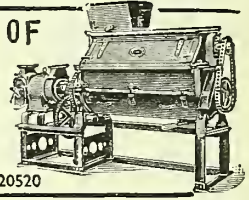


## SEND US YOUR ENQUIRIES FOR ANY TYPE OF MIXERS & SIFTERS

We will gladly advise what kind of machine is best suited for your requirements. We make every type of sifter and mixer. Sturdy, well built machines giving maximum production and efficiency.

**GEO. PORTEUS & SONS (LEEDS) LTD.**  
LEEDS BRIDGE, LEEDS

Phone: 20529 & 20520



## GUMS TRAGACANTH AND ARABIC

As Imported or Finely Powdered  
ALL GRADES

**FREDK. FINK & CO., 10 & 11 Mincing Lane, London, E.C.3**  
Telephone: Mansion House 5094

Are you stocking

## YESTAMIN?

Dried Yeast in its most concentrated and most convenient form—powder and tablets. Generous terms and good discounts. Write today to:  
**The YESTAMIN CO. (The English Grains Co. Ltd.) Shobnall Rd. Burton-on-Trent**

## TRIBASIC PHOSPHATE OF SODA

FREE RUNNING WHITE POWDER

Price and sample on application to:

**PERRY & HOPE LIMITED**  
NITSHILL - - GLASGOW

## ROZALEX

KEEPS HANDS CLEAN

Also

OINTMENT

Prevents chapped

hands

Tubes 6d. & 1/-

1 doz. 1/- Tubes. Aluminium Containers 2/6.

From wholesaler or direct. Show matter and literature supplied on request to

**ROZALEX LTD., YORKSHIRE HOUSE,  
CROSS STREET, MANCHESTER**

Display Cards and  
Cartons of 1 doz.  
6d. Tubes

Display Cartons of  
1 doz. 1/- Tubes.

## GLYCERINE

The Purest Quality on the Market. Produced by  
**THOMAS HEDLEY & CO., LTD., TRAFFORD PARK**  
Chemically Pure B.P. Industrial White. Pale Straw.

Sole Distributors:

**FREDK. BOEHM LTD., 17 Jewry St., London, E.C.3**  
and 140 West George Street, Glasgow

## YERBA MATÉ

The merits of this famous health tea from South America are well known. Stimulating, nourishing, it is invaluable for Rheumatism, Dyspepsia, &c. Once introduced, it means regular customers all the year round. Why not get your share of this business? We will send you sample dozen elegantly packed for 4/9 C.O.D.

Stockists: **MAY, ROBERTS & CO.**

**BATLEY & Co., Stockport**

Telephone:  
Stockport 3323

*Eau de Cologne . . . Lavender Water*

ALL TOILET PREPARATIONS

*Low, Son & Haydon, Limited*

5 QT. QUEEN ST., LONDON, W.C.2 COURT  
TELEPHONE: HOLBORN 4007 EST. 1790 PERFUMERS

## THOMAS & LINTON, LTD.

4 GRAY'S INN ROAD, LONDON, W.C.1

Telephone: Holborn 5518

**Everhot Bags,  
Canda Products, Iodine Lockets,  
Ephedrol, Litesome Belts**

Deliveries from London Stock



## SHADEINE

FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.  
Trial size 8d., per doz. . . . . 6/-  
1/4 size, per doz. . . . . 12/-  
2/6 size, per doz. . . . . 24/-  
3/9 size, per doz. . . . . 36/-

**THE SHADEINE Co., 49 Churchfield Road, Acton, W.3.**



**CARBOY TIPPLER** fitted with safety chain and neck support. Unrivalled in quality and strength. Carboy firmly held. (2)

**HARRY HEYMANN LTD.**  
G. ATES TERRACE, MANCHESTER RD., BRADFORD, YORKS

## Chemists' Fittings

When you want Shop Fittings it will pay you to send to

**GEORGE COOK**

The Chemists' Working Shopfitter.

27 Macclesfield Street, City Road, LONDON, E.C.1

40 years' experience. 'Phone: Clerkenwell 5371 Rough Sketches free



The Perfect Powder for cleaning Dental Plates  
**THOS. CHRISTY & CO. LTD., Old Swan Lane, E.C.4**  
Will send Samples and Showcards upon request.

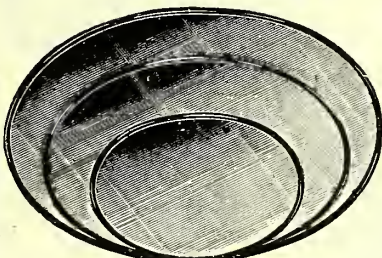


# KING'S FOR SHOPFITTINGS



Ref. No. H 3249 Round Section Metal Display Pedestals, fitted with Rubber Studs at Top and Bottom. Stocked in the following sizes:—

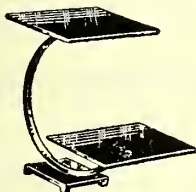
Height	Brown Bronze Finish	Chromium Plate Finish
9-in.	1/3 each	2/6 each
12-in.	1/6 "	3/- "
15-in.	1/9 "	3/9 "
18-in.	2/3 "	4/6 "
21-in.	2/9 "	5/3 "
24-in.	3/3 "	6/- "
30-in.	3/9 "	7/6 "



Ref. No. OK 256 First Quality Clear Glass and Black Opal Glass, Display Ovals, 1/2" thick, polished edges. Stocked in the following sizes:—

Size	Clear Glass	Black Opal Glass
9" x 5"	12/- dozen	17/- dozen
10" x 7"	13/6 "	18/- "
12" x 9"	14/6 "	21/- "
14" x 10"	18/- "	32/- "
16" x 9"	22/6 "	36/- "
18" x 12"	28/- "	51/- "
20" x 15"	45/- "	63/- "
24" x 18"	52/- "	87/- "

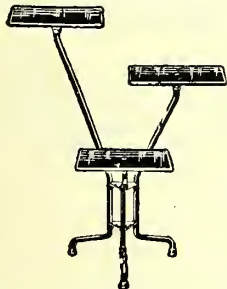
We will be pleased to forward our complete catalogue of Pharmacy Fittings No. 1013. Post Free on Application.



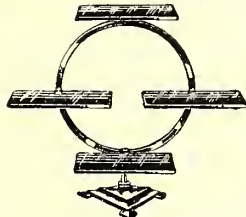
No. H 3278. Square Section Metal Display Stand, fitted with two Black Opal Glass Shelves, 10" x 6". Mounted on a square base. Height overall, 12". Brown Bronze Finish 9/6 each Chromium Plate Finish 12/-.



No. H 3277. Round Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 10" x 6". Mounted on a Double Circle Base. Height overall, 21". Brown Bronze Finish, 13/6 each Chromium Plate Finish, 16/6 each



Ref. No. H 3275. Square Section Metal Display Stand, fitted with three Black Opal Glass Shelves, 7" x 5". Height overall, 19". Brown Bronze Finish 10/6 each Chromium Plate Finish 13/6.



No. H 3472. Square Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 9" x 5". Height overall, 24". Brown Bronze Finish, 22/6 Chromium Plate Finish, 30/- each

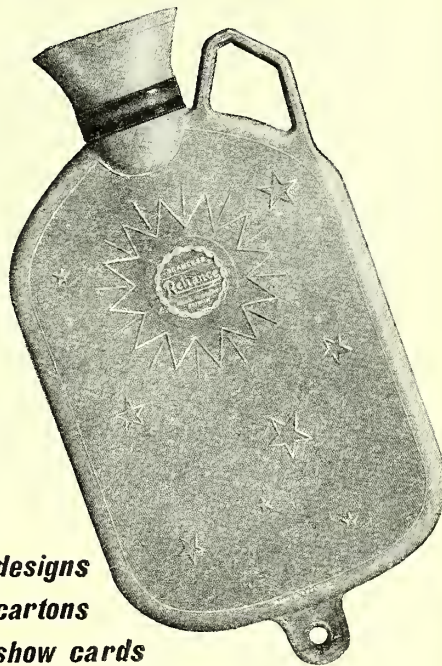
## J. C. KING LTD.

42-60 GOSWELL RD., LONDON, E.C.1

PHONES: CLERKENWELL 2316 (Private Branch Exchange)

# Reliance

The Original British  
Seamless-Moulded Hot Water Bottles



new designs  
new cartons  
new show cards

but still the same dependable quality  
The same sturdy construction  
The same careful manufacture and  
the same 100% Guarantee

Please write for List illustrating  
seamless bottles retailing from:—

1/6 to 7/6 each

**RELIANCE RUBBER CO. LTD.**  
CREMORNE WORKS - LOTS ROAD  
LONDON, S.W.10



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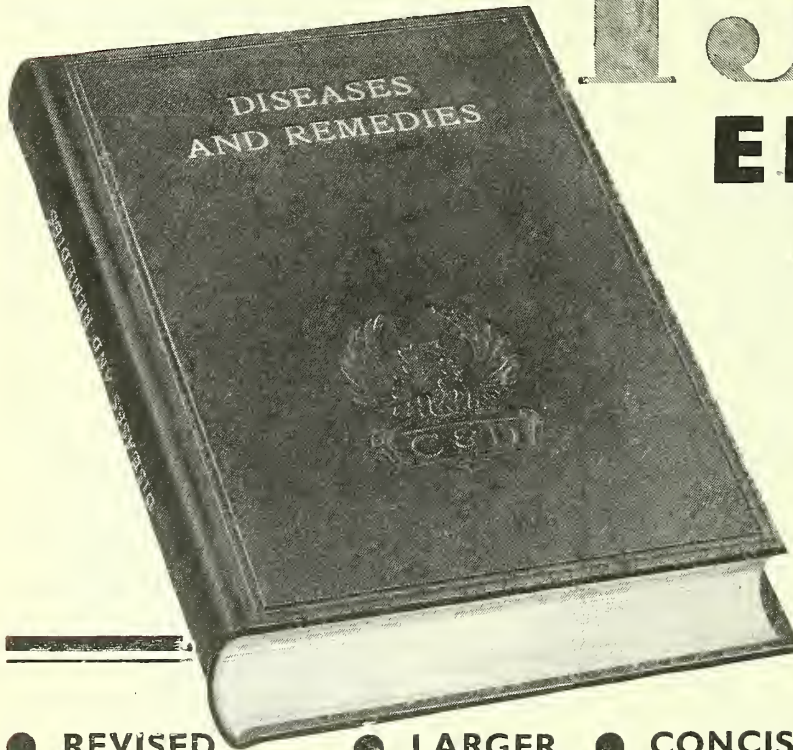
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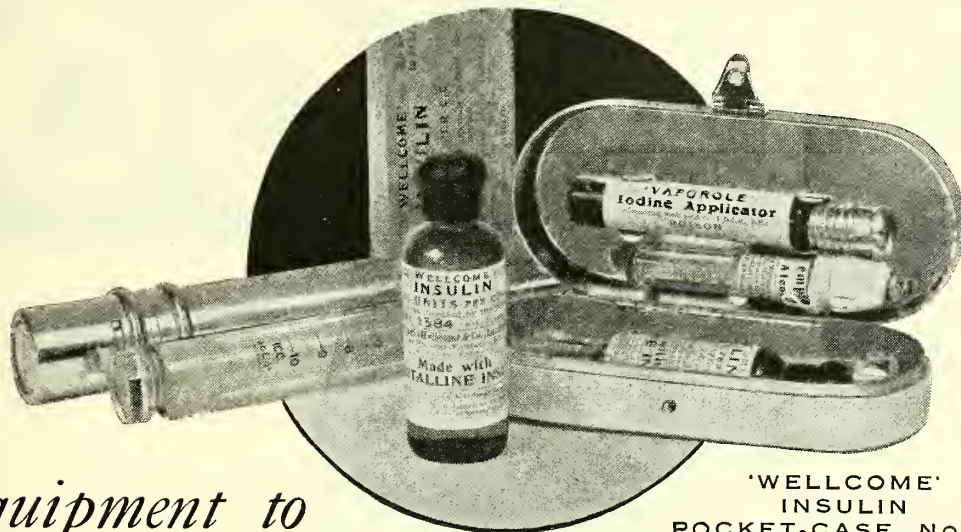
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The Business Newspaper for all Sections of the Drug, Pharmaceutical, Chemical, Cosmetic, Perfumery and Associated Industries

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

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## News of the Week

### Key Industry Duty Notice: Veratrine

A representation has been made to the Board of Trade under Section 10 (5) of the Finance Act, 1926, for an Order exempting VERATRINE from liability to Key Industry duty. Any communication should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, S.W.1, on or before September 24, 1936.

Section 10 (5) of the Finance Act, 1926, is as follows:—

"The Treasury may by Order exempt from the duty imposed by section one of the Safeguarding of Industries Act, 1921, as amended by this Act, for such period as may be specified in the Order, any article in respect of which the Board of Trade are satisfied on a representation made by a consumer of that article that the article is not made in any part of His Majesty's Dominions in quantities which are substantial having regard to the consumption of that article for the time being in the United Kingdom, and that there is no reasonable probability that the article will within a reasonable period be made in His Majesty's Dominions in such substantial quantities."

### British Standards Institution

The British standard specification No. 144, entitled "Creosote for the Preservation of Timber," has been revised by the British Standards Institution creosote committee, on which manufacturers, users and research workers are represented. Throughout the work the committee has been in close contact with the Standards Association of Australia, with

the result that uniformity in the specifications and methods of test issued by the two countries has been achieved. Copies of this revised specification (No. 144-1936) can be obtained from the Publications Department of the Institution, 28 Victoria Street, London, S.W.1, price 2s. 2d. post free.

### Co-operation by British Insecticide Manufacturers

A development of interest is foreshadowed in an announcement that Imperial Chemical Industries, Ltd., and Cooper McDougall & Robertson, Ltd., are pooling their resources in the manufacture and distribution of insecticides and fungicides for the control of pests and diseases on plants. The object of this co-operation is to enable the two companies to offer a wider range of products to the public. It will result in the pooling of the research work carried on by I.C.I. in their chemical laboratories and at their biological station at Jealotts Hill, and also the field research carried out by C.M.R. at Yalding. The effects of this co-operation will not be confined to the United Kingdom, but should also enable these companies to increase their share of overseas markets. It should be noted that the arrangement now announced does not include the Cooper business in dips, disinfectants and animal remedies.

### Prices at an Auction

At Kingston-on-Thames the stock of a drug store removed from Wimbledon was sold on August 20. The opening lot was 103 tablets of Palmolive soap, which after spirited bidding realised 15s. Some of the perfumery fetched only low prices; a box of about 2½ doz. Atkinson eau de Cologne made 11s., two Bourjois caskets, two tablets of soap and four bottles

of Atkinson's eau de Cologne 12s., and three similar lots 10s. each. A box containing about 5 doz. assorted sizes of aspirin tablets went for 10s. A lot consisting of fourteen jars of honey, some concentrated wines and 3 doz. packets of "fruit pastilles" (fruit laxatives) went for 14s.; a 7-lb. tin of Epsom salts and opened tins of Glauber's salt and sodium bicarbonate, with four feeding-bottles and some ointments and powders, found a buyer at 6s. The ordinary run of proprietaries and toilet goods were secured by a member of the trade. Some of the fittings were cheap; a 11 ft. 6 in. mahogany top counter with seventeen drawers fetched only 9s., three iron window bars and glass shelving 13s., and 2-lb. counter scales and two showcases 20s. A weighing machine (up to 20 stone) made £3, and a baby balance 13s.

### Contracts

The following tenders have been accepted by the bodies named:

Blackburn Town Council.—Vernon & Co., Ltd., Preston; T. J. Smith and Nephew, Ltd., Hull; Southall Bros. & Barclay, Ltd., Birmingham; Robinson & Sons, Ltd., Chesterfield; Cuxson, Gerrard & Co., Ltd., Oldbury; and Barnes Bros., Ltd., Blackburn; surgical dressings.

Dover Town Council.—Mr. J. Weir, chemist and druggist: Drugs, etc.

### Inquest

The West London coroner held an inquiry, on August 20, concerning the death of Mr. Charles Barry Domvile, Hans Crescent, S.W.1. Dr. R. H. Slater, chemical pathologist at St. Mary's Hospital, said he had analysed certain organs of the body. He had come to the conclusion that Mr. Domvile must have taken a considerable quantity of phenacetin and dilaudid in tablet form. Sir Bernard Spilsbury stated that after reading Dr. Slater's report he was prepared to say that the cause of death was poisoning by phenacetin and dilaudid. An open verdict was recorded.

### Miscellaneous

PRAGUE FAIR.—The Prague Autumn Fair, to be held on September 4-13, will be a show of some 3,000 exhibitors.

INTERNATIONAL CONGRESS.—The second international congress of the International Association for Testing Materials is to be held in London on April 19-24, 1937. Sir William Bragg, O.M., P.R.S., will be the president.

PROPOSED SEVEN-DAY CLOSING.—A suggestion has been put forward in Stoke-on-Trent and Newcastle-under-Lyme that all tradespeople should close their premises during the Potteries annual holiday week, the first week in August, from the Friday before till the Friday during the holiday week. It is suggested that in this way tradespeople will obviate the difficulties they now have to contend with through having reduced staffs during the summer.

PARAGUAY EXCHANGE CONTROL.—The Banco de la Republica del Paraguay has published a list of commodities in respect of which foreign exchange will be negotiated at the official rate. In the majority of cases Argentine currency alone will be available, with which, when necessary, the other foreign currencies must be purchased on the open market in Buenos Aires. The list includes:—Petrol (naphtha); paraffin (kerosene); raw materials for the manufacture of soaps; drugs in general; specified drugs, subject to the approval of the bank (necessity to be shown).

PUBLIC ANALYST'S REPORTS.—The Oldham public analyst has reported that during the past quarter he has analysed four samples of camphorated oil, three each of zinc ointment and boric ointment, and two of tincture of iodine. One sample of tincture of iodine was not up to the required standard, and one sample each of boric ointment and zinc ointment showed a slight excess of the active medicament.—A Rugby Corporation report states that during the past month an informal sample of iodine ointment had been found to be adulterated, and later a formal sample from the same vendor was found to be unsatisfactory. It was decided to send a warning.

IN THE COURTS.—At Birmingham Police Court, on August 21, Taylors Cash Chemists (Midland), Ltd., were summoned, under the Shops Acts, for not fixing and specifying by notice the day or days of the week on which their assistants were not

employed after 1.30 p.m. Mr. A. R. Churchill, for the defence, said the defendants had been put in that position by circumstances in which they had tried to meet the National Health Insurance Committee. They kept open so that panel patients might secure their medicines on Wednesday evenings. There was a rota system, and at Lozells, for example, the manager received more than the compensating hours off for the time he had been on duty. The chairman said the summonses would be dismissed on payment of costs.—At Southend-on-Sea Sessions, recently, Charles H. Beckess, Abbey Wood, was committed for trial on a charge of breaking into the premises of Bell & Co., chemists, High Street, and stealing postal orders and goods valued at £19.

PHARMACY  
& POISONS  
ACT, 1933

### PHARMACY AND POISONS ACT, 1933.

To.....

of.....

### SALE OF POISONOUS SUBSTANCES.

#### Notice of Entry of name in List of Persons entitled to sell certain Poisons.

I have to inform you that, in compliance with your application, the Council of the County [County Borough] of.....

acting in pursuance of the Pharmacy and Poisons Act, 1933, and the Poisons Rules, 1935, have entered your name in their List of persons entitled to sell Poisons included in Part II of the Poisons List, in respect of the following premises, namely.....

and have also entered the name(s) of.....

as nominated to act as your Deputy [Deputies] for the sale of Poisons at the said Premises.

Attention is drawn to the provisions of section 21 (4) of the Act and rule 30 of the Poisons Rules, under which the retention of the above Entry in the List, after the current year\*, is subject to the payment of an Annual Fee of Five Shillings for each set of premises on which you are entitled to sell Poisons.

Signature.....

Official designation.....

Date.....

Council Offices,

\* For this purpose the current year ends on

FACSIMILE (REDUCED) OF FORM OF AUTHORISATION  
ISSUED TO LISTED SELLERS



OLD DISPENSARY BOTTLES PHOTOGRAPHED BY A  
BLACKPOOL READER



## Scottish Notes

## Brevities

Professor Benjamin George Cormack, Emeritus Professor of Botany at the Anderson College of Medicine, Glasgow, who died on August 19 at the age of seventy, was William Baxter demonstrator in geology and senior assistant in botany at Glasgow, and also lectured in botany at Queen Margaret College. He held the chair of botany at Anderson College from 1897 to 1933.

The death is announced at Ardrossan of Mr. William Rintoul, O.B.E., F.I.C., at the age of sixty-six. Mr. Rintoul was trained in chemistry at the Anderson College, Glasgow, and had experience under the city analyst, Mr. Tatlock. In 1894 he was appointed to the Royal Gunpowder Factory at Waltham Abbey, where he worked with Sir Robert Robertson (later the Government chemist). After fifteen years' service he left Waltham Abbey and joined the scientific staff of Nobel's Explosives Co., Ltd., now absorbed by Imperial Chemical Industries, Ltd. His work brought him into contact with research workers in universities and elsewhere, and his advice was frequently sought by scientific bodies.

## Edinburgh

The Duncan memorial prize, awarded at the end of each session to the best student in the Chemist and Druggist Qualifying examination course of the School of Pharmacy in the Heriot-Watt College, Edinburgh, has been won by William D. Hunter, with G. H. Harrison as runner up. The prize is provided out of a fund raised by old students in memory of Mr. William Duncan, principal of the School of Pharmacy, Royal Public Dispensary, 1886 to 1924, at the time of its amalgamation with the Heriot-Watt School.

A scheme of surcharges for the collection of trade refuse, introduced some months ago by the Edinburgh Town Council, raised protests from the trading community and resulted in an adjustment of the charges. Fresh protests have been occasioned by the notices bringing the scheme into force. A public meeting representative of all kinds of businesses in the city was held recently in the Chamber of Commerce rooms. It was unanimously decided to send a deputation to the Town Council pointing out that this surcharge was unjust in principle and constituted an unfair burden upon shopkeepers. It was stated that one-sixth of the total rates of the city are paid by shopkeepers. If extra funds were required for refuse disposal, the charge, it was claimed, should be a general charge on the rates and not upon a particular section of the community. The Town Council is on holiday at the present time, and the matter will come up for discussion on the resumption. It is understood, however, that the official view is that shopkeepers are being fairly treated and the new charges represent an effort to bring them into line with the practice prevailing in other cities.

## Irish Notes

## Brevities

A modern front has been fitted to the pharmacy of Adamson & Co., Ltd., King Street, Ballina.

Mr. James J. Kerr, P.C., Ph.C., registrar of the Pharmaceutical Society of Ireland paid his annual visit to Lourdes during August, where he served as a brancardier, as he has for many years past.

Mr. Fred Storey, Ph.C., who is vice-chairman of the Ulster Tourists' Development Association, has been unanimously re-elected chairman of the Advertising Committee. Records have been established this year by the Association in the number of tourists and the number of inquiries.

# Topical Reflections

By Xrayer

## I Voted

at the Conference meeting at Bournemouth for the resolution moved by the Manchester and Salford Branch of the Pharmaceutical Society regarding Apothecaries' Hall assistants (*C. & D.*, August 22, p. 225). I hold that no pharmacist could do anything else; at the same time, I quite realise that should dispensing ever be reserved to pharmacists, it would be difficult, if not impossible, to keep these assistants off the Register—just as in 1868 large numbers of unqualified retailers, probably possessing no greater scientific knowledge of their calling than do the Apothecaries' Hall assistants to-day, were received into the fold. I consider that the long record of the Society of Apothecaries, and the fact that before the Pharmaceutical Society was thought of they were intimately concerned with the dispensing and supply of drugs, would be considered favourably by Parliament if ever the reservation of dispensing to any body of men and women became practical politics. After all, the *raison d'être* of the pharmacist's qualification in the early days was not dispensing in the first place so much as the sale of poisons, I agree with you that it would be contrary to the public interest that a body of men and women with a good knowledge of their job should be left high and dry through legislation, if and when such should come about. My experience is that the majority of "Hall" dispensers are women.

## Pharmacists

may well look askance at any method of treatment which has for its object the relief and cure of bodily and mental ailments without the aid of those goods, whether medical or surgical, upon the sale of which their living depends; this conclusion was arrived at after considering the article on "Psychoanalysis" (p. 220). My first introduction to the subject was during the war, when I attended lectures by a medical man who afterwards became an authority on it; he was then using psychoanalytical methods for the treatment of shell-shocked soldiers, and with a good deal of success. Psychology is not a subject about which much is known; I

can well imagine that in the hands of one who is not a veritable master, more harm than good can be caused to patients who may agree to undergo a few "sessions" for the elimination of some complex or phobia. Medical men are not always the most successful practitioners; those with sympathy and patience, combined of course with a good knowledge of their subject, appear to get the best results, whether qualified by examination or not. My chief complaint regarding the method of treatment is that it induces habits of introspection in the minds of patients, causing them to dwell too much upon their moods and feelings. At the same time, there are cases in which it is necessary for some tangled complex to be unravelled and dispersed before peace of mind is restored to the sufferer. Perhaps it is just as well that the treatment is usually so expensive that only the wealthy can take advantage of it.

## "A Medical View"

of the effect of a public medical service upon medical men generally is a singularly clear statement (p. 226). I commend a study of it—it is quite a short paragraph—to pharmacists, particularly to those who may be hankering after the dispensing which may come their way if such a service is set up in their locality. As with pharmacists, so with medical men. The pharmacist, in the case of a public medical service, gains some dispensing which he has to carry on at N.H.I. Tariff rates; he loses a good deal of dispensing at higher rates, as well as sales of a good many proprietaries and other goods at full retail prices, and he gets but a small dispensing fee. The medical man loses the fees he has been in the habit of drawing from dependants of N.H.I. contributors, and in exchange gets a flat rate which practically amounts to underselling his services. As is pointed out in the paragraph, so long as the service is confined to the N.H.I. class not so much damage can be done, but once let the method extend to those with higher incomes and the private practitioner will be wiped out. N.H.I. dispensing is one of the most important—if not the most important—matters before us to-day; its implications are serious for every pharmacist and all those who are bound up with pharmacy.



## Legal Reports

**Illegal Sale of Poison.**—At Stratford Police Court, Essex, on August 26, Arnold Quelch Chiswell, High Road, Leytonstone, was summoned on three informations for infringements of the Pharmacy and Poisons Act, 1933. The defendant pleaded "Guilty." Mr. A. C. Castle, prosecuting for the Pharmaceutical Society, said that the prosecution was the first of its kind under the Act of 1933. The Act provided that in certain circumstances a chemist might become an authorised seller of poisons, that the premises where poisons were sold should be registered, and that the containers of poisons should bear the name of the seller and the address of the premises where it was sold. The defendant, not being a qualified chemist, could not be registered, nor could the address of the shop at which this poison was sold. He had sold a bottle of Collis Browne's Chlorodyne, which contained morphine. The quantity sold by the defendant, if taken by a child, would kill. When the agent for the society spoke to the defendant, he at once expressed his regret. He had also notified the Society that it was his intention to plead "Guilty." The defendant said in excuse that he had ordered the chlorodyne from a wholesale chemist with an order for other goods and he was unaware that he was doing wrong in selling it. The chairman said the defendant was liable to a fine of £50 for each offence, but in view of what had been said they would deal leniently with him. He would be fined 20s. on each summons and must pay 42s. costs.

## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office**

**SAINT-ANGE (ENGLAND), LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of manufacturers of cosmetics, perfumery, etc. R.O.: New Bridge Street House, New Bridge Street, E.C.

**FRANKLAND PRODUCTS, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturers of and dealers in medical preparations, chemists, druggists, etc. R.O.: 112 Fenchurch Street, E.C.3.

**SPA DRUG CO., LTD. (P.C.).**—Capital £500. Objects: To acquire the businesses carried on by G. C. Hull at 47 Spa Road, Bolton, as the "Spa Drug Company" and "Direct Toilet Supply Company," etc.

**THERON LABORATORIES, LTD. (P.C.).**—Capital £1,000.—The objects are to carry on the business of chemists, druggists, etc. The directors are to be appointed. Solicitors: Slaughter & May, 18 Austin Friars, E.C.

**NATURAL FOOTWEAR, LTD. (P.C.).**—Capital £5,000. Objects: To acquire the business of a dealer in surgical shoes carried on by Joan C. Robertson at Leeds. Director: Joan C. Robertson, 14 Lidgett Park Road, Roundhay, Leeds.

**I.D.L. MEDICAL PRODUCTS, LTD. (P.C.).**—Capital £6,000. Objects: To carry on the business of manufacturers and dealers in medical products of all kinds, etc. Robert C. McDowall, 61 St. Albans Road, Edinburgh, is the first director.

**PILGRIM PRODUCTS, LTD. (P.C.).**—Capital £7,500. Objects: To carry on the business of manufacturers of and dealers in chemical, bleaching, industrial and other preparations and products, oils, etc. R.O.: 18 Essex Street, Strand, W.C.2.

**PEPSI-COLA, LTD. (P.C.).**—Capital £25,000. Objects: To carry on the business of manufacturers of, and dealers in, minerals and aerated waters and other liquids and syrups, etc. Solicitors: Coote & Co., 60 Lincolns Inn Fields, W.C.2.

**SAXON & Co., LTD. (P.C.).**—Capital £3,000. Objects: To carry on business as importers, exporters and dealers in oil seeds, oils, greases, chemicals, spices, gums, etc. The first directors are not named. R.O.: 119 and 120 London Wall, E.C.2.

**BRADERINGS, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturers of and dealers in patent

medicines, medicated tablets, drugs, prepared foods, etc. George A. Pickering, 180 Sutton Road, Mansfield, Notts, director.

**FORVIL (ENGLAND), LTD. (P.C.).**—Capital £6,000. Objects: To carry on the business of perfumery manufacturers, etc. Leo Fink, 88 Boulevard Maurice Barres, Neuilly S/Seine, France, perfume manufacturer, director. R.O.: 43 Marylebone Lane, W.1.

**NESTOSYL Co., LTD. (P.C.).**—Capital £400. Objects: To acquire the sole right to use the trade mark "Nestosyl" and to carry on the business of druggists, chemists, etc. The first directors are to be appointed. R.O.: 79-81 Borough High Street, S.E.1.

**N. E. A. POTHECARY'S SUPPLIES, LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of manufacturers and dealers in patent medicines, lozenges, etc. The first directors are to be appointed. R.O.: 90 Gresham House, 24 Old Broad Street, E.C.2.

**BRITISH CARBONIC Co., LTD. (P.C.).**—Capital £3,000. Objects: To carry on the business of manufacturers of and dealers in carbonic acid in liquid or solid form, and manufacturers of and dealers in refrigerators, etc. Solicitor: F. G. Maw, Amberley House, Norfolk Street, London, W.C.2.

**C. T. ROUSE & Co., LTD. (P.C.).**—Capital £1,000. Objects: To acquire the business of merchants in every description of glass, glass bottles and similar articles carried on by W. H. Arber as "C. T. Rouse & Co.," and to carry on business in glass bottles, jars, medical and scientific glassware vessels, etc. R.O.: 1 Haggerston Road, Shoreditch, E.

**UNAPHALT ROADS (1936), LTD. (P.C.).**—Capital £1,000. Objects: To acquire the business carried on by Unaphalt (Roads), Ltd., and to carry on the business of manufacturing chemists, manufacturers, exporters and importers of and dealers in bitumen, asphaltums, waxes, resins, pitches, etc. Solicitors: Blewitt & Son, 141 Fenchurch Street, London, E.C.3.

**WALLIS TIN STAMPING Co., LTD. (P.C.).**—Capital £100. Objects: To acquire the whole or any part of the undertaking and assets of W.T.S., Ltd., and to carry on the business of manufacturers, importers and exporters of and dealers in phenix caps, automatic caps, screw caps, bottle caps, covers for containers of all kinds, etc. Solicitors: Windybank, Samuell & Laurence, 28-29 St. Swithin's Lane, London, E.C.4.

**OCEAN BY-PRODUCT INDUSTRIES, LTD. (P.C.).**—Capital £100. Objects: To organise on a commercial and profitable basis in selected areas of the British Empire or other parts of the world: the shark, turtle and allied . . . industries, including the scientific treatment, manufacture and marketing of . . . liver oils, fishmeal, fins and fertilisers, etc. R.O.: 9 Golden Square, London, W.1.

**DR. GREENWOOD'S PRODUCTS, LTD. (P.C.).**—Capital £1,000. Objects: To acquire the business of a health food specialist now carried on by Sidney R. P. Fisher, Ph.C., M.P.S., at 6 Orchard Street, Preston, as "Dr. Greenwood's Dairy Co.," and to carry on the business of manufacturers and producers of and dealers in remedial and health foods and foodstuffs, including milk powder, dried milk, etc. Sidney R. P. Fisher, Ph.SC., M.P.S., Wyresdale, Cop Lane, Penwortham, Preston, permanent governing director.

**NATIONAL DRUG & CHEMICAL Co. OF CANADA, LTD.**—Changes in the board announced following the annual meeting of the company include the retirement of W. S. Kerry as president, the appointment of E. G. Jackson to that post, and the addition to the board of two new directors—A. H. Elder, and E. E. Lloyd, former vice-president of the Canadian Pacific Railway.

**STEPHEN, SMITH & Co., LTD.**—The directors' report for the financial year ended April 30, 1936, shows that the dividend of 8 per cent. has been paid on the preference shares for the year, and an interim dividend has been paid on the ordinary shares at the rate of 5 per cent. actual. The directors recommend the payment of a final dividend on the ordinary shares



of  $7\frac{1}{2}$  per cent., making in all  $12\frac{1}{2}$  per cent. for the year, less income tax, payable on September 5 next. During the year the company has acquired the freeholds of the works, and of all the adjoining houses in Malmesbury Road and Trellis Street previously held as a leasehold investment. The other investments have been revised from time to time, and the total now stands at £179,053 16s. 6d., a figure well below the current market value. The year's profit has been charged with interest at 4 per cent. on the staff contingency reserve, which after the payment of pensions and grants now amounts to £20,170 15s. 10d. The sum of £5,000 has been placed to reserve account, which, with the balance remaining after the capitalisation sanctioned in September, 1927, leaves £75,000 to the credit of reserve account, and after payment of the above recommended dividend there will be the sum of £6,210 6s. 7d. to carry forward to the credit of the next account. Brevet Lieut.-Colonel Frederick F. MacCabe retires by rotation from the board, and the directors recommend his re-election.

### Bankruptcy Reports

**Re Albert Edward Horsfield Parker**, deceased, lately 1 Gladstone Street, Scarborough, chemist. This administration order was made recently, and the statement of affairs which has been filed shows gross liabilities of £953 3s. 5d., of which £97 1s. 8d. is expected to rank for dividend, with net assets of £58 18s. 3d., and a deficiency of £38 3s. 5d. It appears that the deceased debtor commenced business on his own account at the above address about 1919. In 1931 he opened a shop in Westborough, Scarborough, but that venture was unsuccessful, and a loss of approximately £600 was sustained in that direction. The business at Gladstone Street has also been declining during the last few years.

**Re Solomon Levy**, chemists' sundriesman, late of 20 Leather Lane, London, E.C.1. The statutory first meeting of creditors was held on August 12 in Bankruptcy Buildings, W.C.2. A statement of affairs showed liabilities £1,626, of which £600 is expected to rank, and assets £14. It appears from statements of the debtor that he began business in Leather Lane Market in 1922, and ten years later took a lease of premises at 20 Leather Lane. He continued to carry on the business in the name of S. Levy until January 1935, when he sold it to his wife for £72; he has since been employed by her. His bankruptcy has arisen from an action brought against him by the petitioning creditors, Gillette Industries, Ltd., for selling their goods at cut prices. He defended the action with the money obtained from the sale of the business, but they recovered judgment. The estate remained in the hands of the official receiver as trustee.

## Business Changes

THE BIRMINGHAM CHEMICAL CO., LTD., have removed their head office and works to Wiltell Works, Lichfield, Staffs.

FRANCIS HALLAM, LTD., Burton-on-Trent, have acquired the business of Mr. D. R. Whitley, chemist and druggist, Villa Road, Handsworth, Birmingham.

WHEN A "CERTAIN" REMEDY FAILS.—"To cure ringworm, which schoolchildren often get, gently dab with aromatic vinegar. It will cause a little pain, but is a certain remedy. Plain vinegar and salt is also a good thing, applied two or three times daily. A tonic such as cod-liver oil may be useful at such a time, as well as a nourishing diet. Failing these things, get some proper ointment, otherwise the contagion will spread."—From the Women's Page of a popular magazine.

ONE WAY OF AVOIDING CONFUSION.—Almost simultaneously with the announcement of a new ergot alkaloid in the "Quarterly Journal of Pharmacy and Pharmacology" (9, 2, 1230) comes a statement in "The Journal of the American Medical Association" (107, 4, 263) that "to obviate further confusion" the Council on Pharmacy and Chemistry of the Association has given the alkaloid known in the United Kingdom as ergometrine the name "ergonovine," making five names for this substance.

## Supply of Medicaments in European Countries

IN the autumn of 1935 the Secretariat of the Société Suisse de Pharmacie sent out a *questionnaire* to various foreign pharmaceutical societies on the supply of medicaments by medical men. In the course of a few months sixteen replies were received. The results of this referendum ("Journal de Pharmacie de Belgique," 27, 36) are summarised below, with conditions in Switzerland added for the sake of completeness.

AUSTRIA.—Authorisation to open a "medical pharmacy" is granted to doctors only where there is no pharmacy. This authorisation is withdrawn when a pharmacy is opened.

BELGIUM.—Supply of medicaments by doctors is permitted in what is called the "plat pays" (small villages and rural communes). New regulations are under consideration.

DENMARK.—When there is no pharmacy in the district, doctors can obtain permission to supply medicaments and dressings to patients. These must be purchased at a pharmacy specified by the Ministry.

ESTHONIA.—Doctors have not the right to supply medicaments to patients.

FRANCE.—The supply of medicaments is regulated by an Act dated April 11, 1803, still in force. The tribunals have interpreted this Act to mean that doctors at a great distance from a pharmacy may supply medicaments to their patients.

GERMANY.—Generally speaking, doctors have not the right to sell medicaments. They may use them, but may not leave them at the disposal of patients. A regulation, now under revision, allows doctors one league distant from the nearest pharmacy to open a "medical pharmacy" if a licence is obtained.

GREAT BRITAIN.—Medicaments may be supplied by doctors except under the National Health Insurance scheme. Insured persons obtain their medicaments from a pharmacy.

HUNGARY.—Only the doctor who lives "many" kilometres from a pharmacy has the right to have a pharmaceutical chest (Handapotheke).

ITALY.—Only in communes without a pharmacy are doctors authorised to keep a pharmaceutical department.

JUGO-SLAVIA.—Doctors are forbidden to supply medicaments immediately a pharmacy is opened in the district. Otherwise a "medical pharmacy" may be kept; but the medicaments must be purchased at a pharmacy.

LATVIA.—As in Esthonia.

LITHUANIA.—As in Esthonia.

LUXEMBURG.—Where there is a pharmacy, doctors, surgeons and veterinary surgeons may not supply medicaments.

POLAND.—In the region formerly under Austria doctors may practise pharmacy if the nearest pharmacy is at least seven kilometres away. Elsewhere this is not allowed.

SPAIN.—In districts ten kilometres or more from a pharmacy doctors have a limited stock of medicaments. These are purchased at a pharmacy, paid for by the commune, and supplied free by the doctor. The doctor may not sell medicaments.

SWEDEN.—Doctors may supply medicaments if distant from a pharmacy. These medicaments must be purchased by them at a pharmacy.

SWITZERLAND.—The cantons of Bâle-Ville, Argovie, Neuchâtel, Vaud, Fribourg, Geneva and Tessin do not authorise the supply of medicaments by doctors. In the other cantons doctors may practise pharmacy even where there is an open pharmacy.

ADVERTISING LITERATURE IN JUGO-SLAVIA.—"Leaflets advertising specialities in Jugo-Slavia have been restricted to four octavo or eight 16-mo. pages. The measure is justified on the ground that the leaflets, falling into the hands of the public, do more harm than good."—"Journal de Pharmacie de Belgique."



# Prescription Problem

THE prescription reproduced in facsimile in our issue of August 15 (p. 194) brought us a steady arrival of postcards up to the time of closing the competition. The correct transcription is as follows:—

NH<sub>4</sub> B[ro]m[id.] ʒiv  
Syr[.] Aur[an]t[.] ʒj  
Aq[.] [ad] ʒvij  
M[.] ʒss ter [in die.]

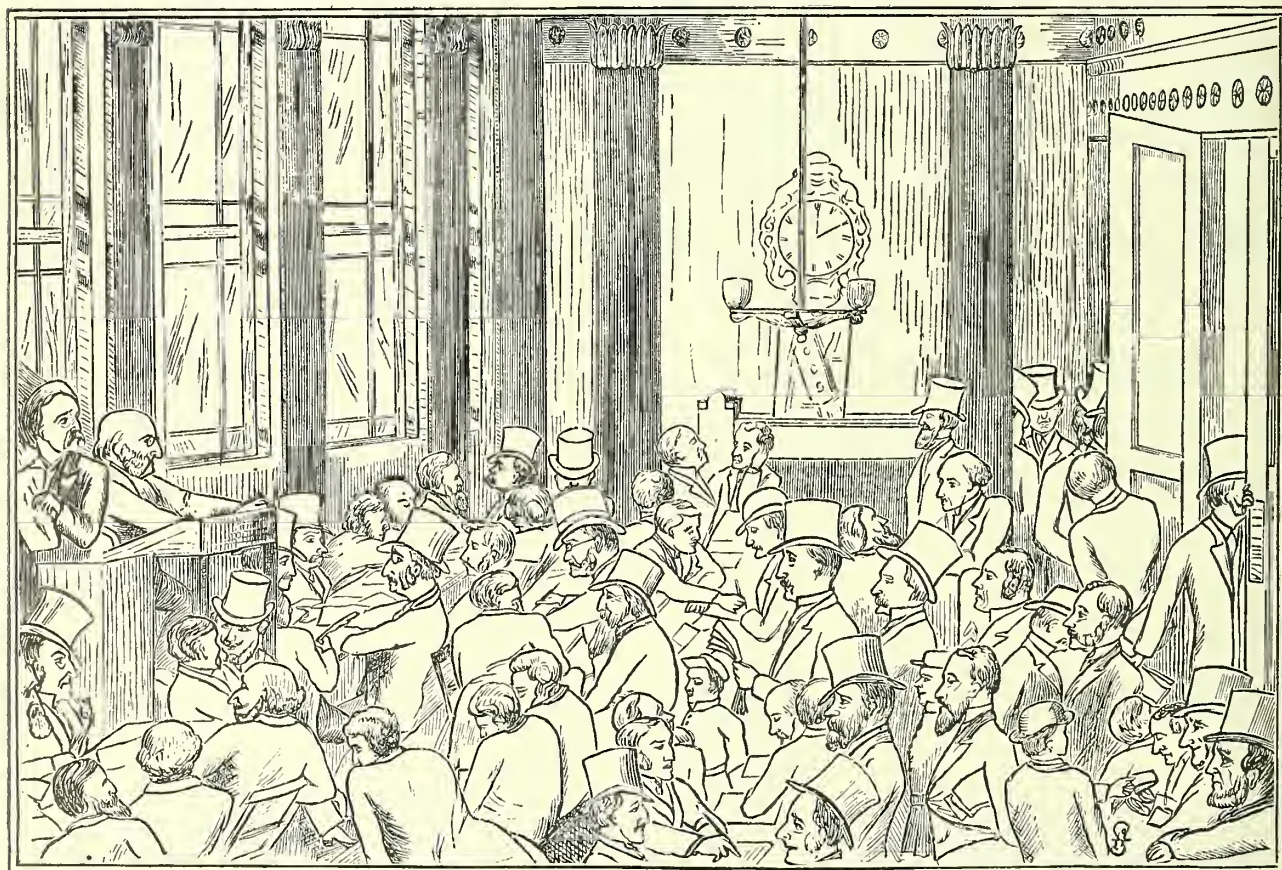
About half of our correspondents failed to get the names of both the first two ingredients correctly. For the first line we were offered the bromides of potassium, sodium, lithium, calcium, strontium, and in one instance simply "Bromid." One of these writers makes the ingenious suggestion that the "4" of NH<sub>4</sub> may be an attempt to clear the prescriber's nib. Other variants suggested for this line are Tinct. Bellad., Tr. Nux Vom., Tinct. Zingib., Inf. Buchu, Mist. Bromid., Mist. K. Bromid., Triplex Bromid., Liq. Bism., Sodii Bicarb., and Trit. 4 Biniodid. One of the "Mist. Bromid." contributors wrote, "The mixture is probably for a very young baby," and proceeded to discuss the nature of the complaint and the method of administering the ʒss doses. Incidentally, the maximum pharmacopoeial dose of tincture of nux vomica has been exceeded on two or three cards.

The second line has proved to be easier, the only slips we have noticed being Aq. Chlorof., Spt. Ammon. Co., Aq. Anethi and Syr. Chloral. In one case the third line is read "M(itte) ʒvj," in another "Aq. ʒij," and in a third "Aq. ʒvij."

We next arrive at the cards which have the right ingredients but not with the right quantities nor with the NH<sub>4</sub> correctly transcribed. Continuing the process of elimination, we reach a numerous class with the ingredients and the NH<sub>4</sub> well or fairly well transcribed, but with one or more wrong quantities. The few competitors who have "satisfied the examiners" have, we think, exercised sound judgment. The deciphering of handwriting of this type resolves itself, at one stage of reading, largely into an estimate of probabilities. Let us assume that we have no knowledge of the source of this prescription. Then, if the quantity of syrup of orange is ʒj (and that line seems to be the easiest of the three), the probability is that the total volume of the mixture is ʒvij, in view of the dose and of the conservatism of prescribers as a whole; this, in turn, suggests that the quantity of ammonium bromide is either ʒij or ʒiv—at which point the dispenser looks at the prescription again. The winning competitors are:—

Mr. H. D. Edwards, City of London Hospital for Diseases of the Heart and Lungs, Victoria Park, E.2  
Mr. E. W. Ewell, 37 Townwall Street, Dover  
Mr. E. Foster, 8 Thorber Grove, Blackpool  
Mr. H. Hughes, 39 Bush Grove, Stanmore, Middlesex  
Mr. B. Murphy, The Pharmacy, Mitchelstown

to each of whom a prize of 5s. is awarded. An interesting possibility is suggested by the fact that ten competitors have obtained the right proportion of ammonium bromide in the wrong volume (ʒij in ʒvj). If a public analyst was sampling this mixture (privately dispensed), what course would he adopt?



AT THE LONDON DRUG SALES (From "THE CHEMIST AND DRUGGIST," August 21, 1886—half size)



# Birmingham Analyst's Report

THE latest annual report of the Birmingham city analyst (Mr. H. H. Bagnall, B.Sc.), covering the year 1935, includes among its opening paragraphs a general review of the work of his department during the past twenty-five years. In 1910 the number of samples of food and drugs analysed was 2,102 (or 370 per 100,000 persons in Birmingham) together with 761 miscellaneous samples, a total of 2,863. Last year the corresponding figures were 5,464 (i.e., 529 per 100,000 persons) and 777 miscellaneous samples, a total of 6,241 samples. During the same period the percentage of samples reported against decreased roughly by half—from 10 per cent. to 5 per cent. This improvement is manifest in the case of drugs. Such common household articles as tincture of iodine, camphorated oil, boric and zinc ointments, ammoniated tincture of quinine, seidlitz powders and borax were quite commonly adulterated or incorrectly made up, the percentage of samples so condemned being in the neighbourhood of 20 per cent. of the samples bought, but a very different state of affairs prevails to-day, the percentage of adulteration being usually between 3 and 4 per cent. Similar remarks may be made about dispensed medicines, for the departmental statistics show that something like one-third of the mixtures made up from prescriptions were incorrectly dispensed. It is true that in most cases there was little danger to health involved, but it was, to say the least, unsatisfactory that patients in so many cases did not receive the amount or kind of drugs considered appropriate by their doctors. The position is much better to-day, although there is still room for improvement. Among articles of pharmaceutical interest dealt with are the following:—

**PEARL BARLEY.**—One sample out of fifty-six contained an appreciable amount of mineral facing in the form of talc. This had evidently been added for the purpose of polishing the barley and so improving its appearance. The production of a satisfactory, uniformly white pearl barley entails a considerable amount of waste. If the milling is not properly carried out and some of the external brown covering of the grain is not removed the pearl barley is not uniform in appearance, and a coating of talc or rice starch effects an improvement. Such an addition may therefore be said to be intended, in the words of the Food and Drugs Act, to "conceal the inferior quality thereof." The vendor was cautioned.

**FERTILISERS.**—The fertilisers included seven samples of sulphate of ammonia, six of bone meal and one of nitrate of soda. A sample of sulphate of ammonia consisted of sulphate of potash apparently supplied in error, and no statutory statement was supplied to the purchaser. No statements were supplied with four samples of sulphate of ammonia, and written cautions were sent to all these vendors. The statement supplied with a sample of bone meal gave a guarantee of 82 per cent. of nitrogen, an obviously impossible figure, the amount found by analysis being 1.27 per cent. The percentage of insoluble phosphoric acid guaranteed was within the limit of error. The usual caution was given. A sample of bone meal was guaranteed to contain 3.5 per cent. of nitrogen and 20 per cent. of insoluble phosphoric acid, but the actual amounts present were 1.16 and 27.3 per cent. respectively. The wrong label had been used by the vendor, and he was cautioned. No statement was given with one sample of bone meal, and another contained 4.9 per cent. of nitrogen although 4.0 per cent. was guaranteed, the limit of error being 0.5 per cent. Both these vendors were cautioned. The remainder of the samples, including a single sample of nitrate of soda, were of good quality and a proper statement was given in each case.

**PROPRIETARY MEDICINES.**—Six samples of proprietary medicines were submitted. The formulas of all these were printed on the labels as is now required in the case of proprietaries on which no Government duty is paid. Unfortunately in most cases the names of the constituents were printed in pharmaceutical Latin and so would be unintelligible to the great majority of purchasers. Apart from that, this practice tends to promote the air of mystery which is so helpful to the sale of the article.

In view of the fact that a number of the constituents present in these mixtures were merely vegetable extracts with no distinctive characteristics it was impossible to check the

proportions of a number of them or even to show that certain of them were present at all. In six of the samples it was possible to show that the constituents stated to be present, which were capable of determination, were actually present in approximately the amounts indicated in the formula.

In the case of an eye lotion there were serious discrepancies. Among other ingredients 1 per cent. of boric acid, 2 per cent. of borax, 0.8 per cent. of sodium salicylate and 0.1 per cent. of zinc sulphate were stated to be present. The actual amounts of these found by analysis were, respectively, 1.7 per cent., 0.46 per cent., 0.02 per cent., and 0.03 per cent. The article was bought at a local pharmacy, the vendors merely supplying it in the sealed packages in which they received it.

**ZINC OINTMENT.**—Eighteen samples were taken. The basis was correct in every case but one sample contained 21.5 per cent. of zinc oxide, an excess of 43 per cent. The article was withdrawn from sale and the matter referred by the vendor to the wholesale dealer.

Other substances mentioned include seidlitz powders and vinegar, both of which have received detailed notice in Mr. Bagnall's quarterly reports.

## An Ancient Dubrovnik Pharmacy

A READER who was in Dubrovnik (Ragusa), Jugo-Slavia, at the time of our Annual Special Issue, which contained an article on the old Franciscan pharmacy in that city, sends us the accompanying illustration of another pharmacy of great age: the "Domus Christi." This was founded in 1420, as the shop



front advertises in four languages—"Osnov 1420," "Ochob 1420," "Fond [fondée] 1420" and "Gegrund[gegründet] 1420." It will be noted that although the main sign is in Roman lettering, the sign on the window is in Syrillic characters, which are now compulsory in Jugo-Slavia. Dubrovnik was recently visited by his Majesty the King.



# Production under Opium Conventions

WE have received a copy of a League of Nations report (O.C. 1662), dated July 30, communicated by the director of the Opium Traffic Section. The report sets out statistically the results of application of the international opium conventions for limitation of manufacture of certain "dangerous" drugs. The document, the principal passages of which appear in the following paragraphs, includes a graph of the world manufacture of morphine, diacetylmorphine and cocaine for the period 1930-34.

The following table indicates the total quantities (in kilos) of these three drugs legitimately manufactured throughout the world for the period 1930-34:—

	1930	1931	1932	1933	1934
Morphine ... ..	38,634	30,457	27,580	29,997	26,778
Diacetylmorphine ... ..	4,088	1,249	1,315	1,347	1,110
Cocaine ... ..	5,838	4,612	3,968	4,010	3,472

In 1934 21.6 tons of morphine was used for conversion into other drugs. The total world consumption of morphine as such amounted, during the same year, to 6.8 tons. If the quantity of morphine used for the manufacture of certain preparations—about 0.5 ton—is added to this figure it will be seen that the total quantity of morphine used for conversion, consumption and the manufacture of certain preparations in 1934 was 28.9 tons, or about 2.2 tons more than the total quantity manufactured. For the first time since the League of Nations has had under observation the manufacture and use of morphine, the quantities effectively used during the year appreciably exceed the quantities effectively manufactured. It is clear that the quantity of morphine used during 1934 in excess of the quantities manufactured during that year came from the reserve stocks of the previous year. A comparison of world stocks of morphine at the beginning and end of 1934 confirms this conclusion. While on January 1, 1934, there was 10.1 tons of morphine in stock, there was only 7.9 tons in stock on December 31. Presuming that about 29 tons of morphine represents the legitimate minimum world requirements of this drug, it may be concluded that to prevent reserve stocks from being exhausted, the total world manufacture of morphine in 1935 reverted to the 1933 level—about 30 tons. It may accordingly be anticipated that the 1935 figures for world manufacture of morphine will show an increase compared with the figures for 1934.

In regard to this general decrease in the quantities of morphine manufactured throughout the world, two opposing tendencies are clearly evident. First, there is a relatively large increase of manufacture in certain new manufacturing countries—countries which began to manufacture morphine in 1930 or subsequent to that year; secondly, there is a very appreciable decrease of manufacture in the old manufacturing countries. This development is indicated in the following table:—

## IN NEW MANUFACTURING COUNTRIES

Country	Morphine manufactured (Kilos)	
	1933	1934
Belgium ... ..	419	973
Hungary ... ..	192	365
Poland ... ..	174	456
Sweden ... ..	72	141
Czecho-Slovakia ... ..	367	460

## IN OLD MANUFACTURING COUNTRIES

Country	Morphine manufactured (Kilos)	
	1933	1934
Germany ... ..	6,285	4,983
France ... ..	4,482	3,022
Switzerland ... ..	1,595	865
United States ... ..	7,015	5,983

The relative importance of the manufacture of narcotic drugs in the various countries individually in relation to world manufacture in 1934 was as follows:—

For *morphine*, the United States takes first place. The United States produced nearly 6 tons of morphine, or 22½ per cent. of the total world manufacture. Germany comes next with 18.6 per cent. (about 5 tons), Japan comes third with 12.4 per cent. (3.3 tons), and France comes fourth with 11.3 per cent. (about 3 tons).

Japan takes first place among manufacturing countries in respect of *diacetylmorphine*, being responsible for 49.3 per cent. of the total world manufacture (547 kilos). The United Kingdom comes second with 9.2 per cent. (102 kilos), and the Union of Soviet Socialist Republics comes third with 8.6 per cent. (96 kilos).

Japan heads the list of manufacturing countries in respect of *cocaine*, being responsible for 26.2 per cent. of the total world manufacture (910 kilos). The United States comes second with 24.7 per cent. (856 kilos), and the United Kingdom comes third with 11.1 per cent. (385 kilos).

Germany heads the list of manufacturing countries in respect of *codeine* and *dionin*, manufacturing, in 1934, 22.6 per cent. of the total world manufacture of codeine (3,890 kilos) and 35.9 per cent. of dionin (614 kilos). The United States of America comes second with 21.6 per cent. (3,731 kilos) and 13.8 per cent. (236 kilos), respectively. France takes third place in respect of the manufacture of codeine with 18.1 per cent. (3,124 kilos), and the Union of Soviet Socialist Republics comes third in respect of dionin with 12.3 per cent. (211 kilos).

The world consumption of the three drugs appears to follow the general movement noticed in respect of manufacture and exports. The quantities (in kilos) consumed during the period 1932-34 were as follows:—

	1932	1933	1934
Morphine (as such) ... ..	7,255	7,410	6,810
Diacetylmorphine ... ..	1,257	1,135	1,019
Cocaine ... ..	3,542	3,409	3,209

World consumption, accordingly, appeared to have reached its lowest level up to date in 1934. It may be generally stated that the quantities legitimately manufactured by licensed firms came increasingly near, in respect of diacetylmorphine and cocaine, to the quantities necessary for legitimate consumption, and that in 1934 the quantities of morphine remaining as such (5,777 kilos) are even lower than are necessary for legitimate consumption.

## New Books

Lupton, A. W.—*Aids to Forensic Pharmacy*. First edition. 4 in. × 6½ in. Pp. 226. Baillière Tindall & Cox, 7 and 8 Henrietta Street, London, W.C.2. [This volume constitutes one of a series intended for pharmacy students. Yet it is intended that certain chapters may also be of value to students and members of the medical profession. There are 74 pages allotted to the Pharmacy and Poisons Act, 1933, but it is doubtful whether the reader is better informed after reading the section than he would be after reading the Act and Rules. The book includes a useful series of chapters on laws relating to the conduct of the pharmacy, but these for the most part are dealt with in the *C. & D. Diary*.]

Dutton, W. F., and Lake, G. B.—*Parenteral Therapy*. First edition 7 in. × 10½ in. Pp. × + 386. 34s. Baillière, Tindall & Cox, 7 and 8 Henrietta Street, London, W.C.2. [This work is described by its American authors as a "ready-reference manual of extra-oral medication for physicians, dentists, pharmacists, chemists, biologists, nurses, medical students and veterinarians." Since parenteral medication is now of considerable importance in the treatment of disease it is especially incumbent upon the professional pharmacist to make himself familiar with the wide variety of indications for its adoption. So far as we are aware no other work covers the field so thoroughly. The physiological effect of any drug is determined by factors which are carefully outlined. A therapeutic index, giving disease and drugs used, constitutes the second section, and pharmacological notes giving drugs, their action uses, parenteral doses, American manufacturers and packings comprise a third. An appendix of new drugs introduced since the other section was printed and a list of manufacturers and distributors complete, with the index, what must be considered a unique contribution to relatively new medical procedure. The work is profusely and admirably illustrated.]



# Evolution and Disease

THE August issue of the "Proceedings of the Royal Society of Medicine" includes a monograph by Mr. J. P. Lockhart-Mummery, F.R.C.S., entitled "Evolution and Disease." Mr. Lockhart-Mummery urges the importance of gaining further knowledge of pathogenic organisms, his theme being that, contrary to a widely held belief, such organisms represent a high state of development and constitute a serious potential threat to mankind. We quote a few salient passages:—

If we are going to set up as our standard of the most perfect result of the evolution of organisms, that organism which has attained the most complete control over its environment, then *Homo sapiens* must come out on top by a wide margin. But are we justified in assuming any such standard of perfection just because we happen to have attained it ourselves? . . . Might it not be equally true that the most perfect result of the evolution of organisms is the production of that organism with the simplest possible structure, with the ability to obtain food and other necessities with the minimum of effort, with the simplest possible method of reproducing itself and with the ability to evolve, or if you prefer, to readjust itself to its environment with the greatest rapidity? If we assume *this* as our standard of perfection then we find that it has been achieved by the viruses and bacteria, and that they easily head the list. . . .

## Host before Organism

It is surely obvious that no parasite, no organism that lives upon another, can possibly have been evolved before its host has come into existence. The organism which acts as host must be evolved first before the parasite can have reached a stage in evolution which enables it to become parasitic upon that host. . . . It must follow on purely logical grounds that man's parasites must have been evolved long after man himself. . . . A virus cannot have existed before its environment existed. It must be the other way about, and man must have existed for a very long period before the virus of smallpox had evolved to the stage when it could attack him. There are numerous other examples. . . . Although great numbers of the bones of the ancient Babylonian and Egyptian civilisations have been preserved for our observation, no one has so far discovered any evidence of syphilis in the bones or skulls of the remains of these civilisations. It seems almost certain that syphilis did not exist in Europe or the Near East until after the discovery of America by Columbus. . . .

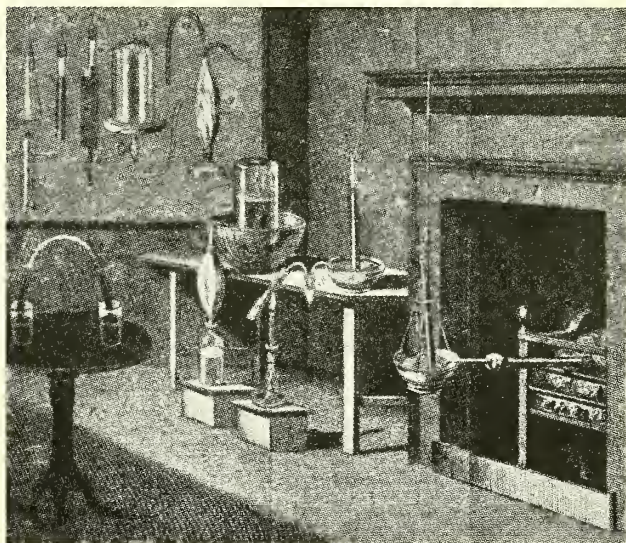
All the evidence seems to point to parasites having been evolved from organisms which originally had an independent existence and consequently a much more elaborate structure. It seems reasonable to argue that those parasites, which at some stage of their life cycle have a free-living embryo and elaborate structure, must have taken to parasitism comparatively recently, while parasites which have evolved an entirely parasitic existence must be of much more ancient origin, and are the more perfected types. The bacteria and viruses which cause disease in man have attained the most complete form of parasitic existence of all, since they have cast off all traces of elaborate structure or of independent existence, even for the purpose of reproduction. It seems only logical to consider that they too have been evolved from more elaborate and complicated organisms, that in fact they are not the lowly forms of life we are accustomed to assume them to be, but the most perfect examples of parasitic evolution.

We know that evolution of species results from mutations or changes which occur in living organisms and which are preserved and encouraged by natural selection. That is, if a mutation occurs which has a possible chance of survival owing to the occurrence of a suitable environment, it will have a chance of surviving and forming a new variety, or possibly a new species. The chances against any individual mutation surviving are very considerable, the vast majority of mutations for one reason or another die out, and it follows that the more rapidly any particular organism reproduces itself the greater will be the chance of mutations for new forms occurring and of any mutation surviving and being perpetuated in a given time. . . . Man, whose rate of reproduction is very slow, about three to four generations in a century, evolves very gradually. In the last 100,000 years there have no doubt been changes in man's structure but they have not been very

great, and, if we compare the teeth and bones that have been unearthed of human beings who lived 100,000 years ago with those of modern man, the differences are less than exist between different individuals at the present day. With bacteria and viruses there is quite a different state of affairs. Many bacteria reproduce themselves at an almost incredible speed; certainly millions of generations in a day, and, although we cannot prove it so easily, it is fairly certain that the viruses have a similar ability of rapid reproduction. . . . We can have no hope of evolving an immunity by natural processes to bacterial and virus diseases, since even were it possible for man to evolve immunity to virus disease these parasites could evolve a new variety much more rapidly than any immunity man can evolve to resist their invasion.

## The Outlook

It would seem probable—one might almost venture to say certain—that in the future new types of disease due to bacteria and viruses will be evolved, even more deadly than those which we now know of. In the race between man and his parasites, especially the virus diseases, it would seem that the former has little chance owing to the much greater power of evolution of new types possessed by the viruses and that man is threatened, if he has to rely upon natural processes alone, by eventual extermination. A similar fate, probably due to much the same cause, overtook the great reptiles which for some 200 million years lived and flourished on this earth. We can never know exactly how they were exterminated, but it seems most probable that the evolution in time of some parasite able to live upon them and kill them was the cause of their downfall. The same fate would seem in store for man, unless he can, by the use of his brains, find means of preventing the bacteria and viruses from obtaining an entrance to his body, or of so raising his own immunity by artificial means that he can survive their attack. By such means he has already successfully conquered smallpox, diphtheria, and plague, and it is probable that his means of defence will increase more rapidly as time goes on, but the fight will be a never-ending one, and any breakdown of civilisation such as results from great wars will at once give the virus diseases their chance, with disastrous consequences. In fact, after the great war of 1914-18 we saw this when a new form of virus, the so-called pneumonic influenza, attacked human beings and killed in a few weeks more people than the shells and bullets had done during five years of war. By knowledge alone, and its proper application, can man hope to survive in his present numbers through the next few thousand years.



EXAMPLES OF JOSEPH PRIESTLEY'S APPARATUS (C. & D., JUNE 27, P 751).



# Insecticides of Derris Type

IN an article entitled "Plant Diseases and Pests," published in "Inlichtingen en Onderzoekingen van de Afdeling Handelsmuseum" in 1935, attention is called to many interesting facts about derris, particularly in regard to the Dutch Indies variety. It is pointed out that *Derris elliptica*, Benth, is distinguished by a comparatively low content of poisonous components in which there is much rotenone,



Due to ravages of alder beetle

while *Derris malaccensis*, Prain, has a high content of poisonous components but contains little rotenone. It appears that the selection and culture of derris in the Dutch East Indies has been thoroughly investigated, and there are now available plants with a composition of 10 per cent. rotenone and 25 per cent. ether-extract. Tests regarding the permanency of the poison in derris powder and rotenone show that solution of rotenone is not of unlimited permanence, an important point to bear in mind when spraying with rotenone. Derris powder mixed with water was found to have its effectiveness unimpaired after ten days, while a derris dust mixture remains active for a longer period, according to weather conditions. Other experiments have shown that derris powder and rotenone are sensitive to light and moisture, and it was further found that a derris dust which has been mixed with lamp black maintains its effectiveness when exposed to sunlight longer than a mixture in which no lamp black has been incorporated.

## ESTIMATION OF DERRIS

The occurrence of rotenone in derris root may be detected with the naked eye, and it is found that the soft parenchymatous tissue contains rotenone, but the hard fibre elements do not. Experiments on insects show that with derris powder, the fine substance from the soft elements is most effective, while the poisonous effect of the rougher hard parts is very small. Derris root may be assessed either on rotenone content or on ether-extract. Opinions in the trade regarding valuation are varied. On the London market, the value is based principally on the content of ether-extract, while the American point of view makes rotenone content the starting point. With a view to solving which is the better method, experiments on various insects have been conducted with derris root samples in which rotenone content and ether-extract content were known. Results are summarised below:—

1. For these biological tests the samples were grouped in two

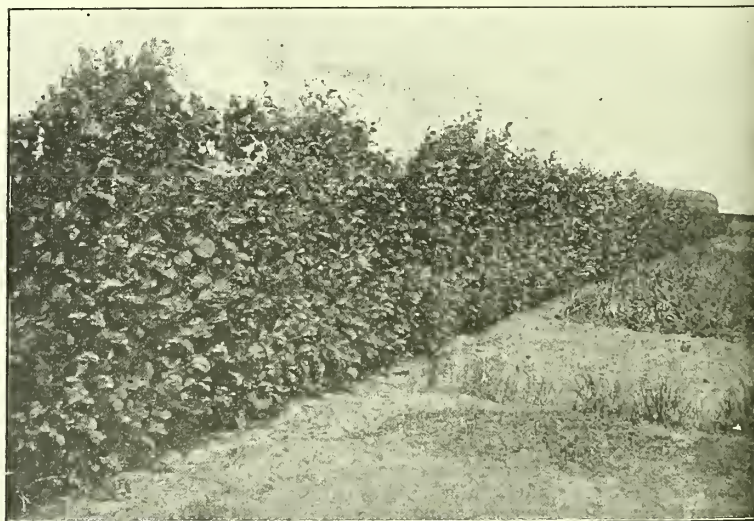
ways: (a) samples having equivalent ether-extract, (b) samples having equivalent rotenone content.

2. In (a) the samples do not appear to agree in their biological action, in the second case the agreement seems to be well established.
3. For the valuation of derris root it is not sufficient to know the ether-extract in order to obtain a true conception of the biological value.
4. Such a conception is obtained by starting with the rotenone content, which is arrived at by the extract-crystallisation method.
5. The rotenone content should therefore be taken into consideration first when appraising derris root.
6. In derris root with a sufficient rotenone content (4 per cent. and more) the quantity of ether-extract is of no great importance for the biological effectiveness. Only in root with low rotenone content (less than 2 per cent.) and at the same time high ether-extract would the latter factor have any influence on the biological action.

It has also been found that in the valuation of derris dust mixtures the rotenone content is the important factor. Further attention must be paid to the degree of dilution, i.e., the number of derris powder particles which are present in the solution per volume unit. Too great a dilution, e.g., derris root with 10 per cent. rotenone content down to a mixture of  $\frac{1}{2}$  per cent. rotenone, in which one-twentieth part of derris occurs, reduces considerably during the spraying process the possibility of the insects coming in contact with the poison. It appears from tests that a mixture of this kind was less effective than one made from root containing 4 per cent. rotenone (to  $\frac{1}{2}$  per cent. rotenone), so that one-eighth part of derris was present.

## AGRICULTURAL AND VETERINARY USES

Details are given of a large number of experiments in the field, and these have shown that some insects are not greatly



Alder hedge six weeks after spraying with derris dust mixture.

susceptible to derris either in the form of dust or solution. Although the destruction of the caraway moth, the raspberry beetle and the alder beetle by means of derris has become a general practice, many other insects can be destroyed with the help of derris. These comprise most caterpillars of butterflies



and moths, the larvæ of sawflies, ants, leaf beetles and their larvæ, flower bugs, leaf aphides, thrips, cockroaches, water fleas.

Regarding the manner of application, it can be said that in very many cases sprinkling with a derris dust mixture with half to one per cent. rotenone is the best, for instance against caterpillars' larvæ, leaf beetles, bugs, cockroaches, ants. Against leaf aphides, thrips, and alburnum mites it is preferable to spray with a mixture of derris powder and water in which about 1:5000 rotenone is present. For the destruction of cattle flies and vermin on domestic animals, derris is being increasingly used, and against the latter, a powder containing one part high-grade derris to ten parts of talcum powder is suggested, and it is also stated that derris powder containing two to seven per cent. rotenone is a good remedy for fowl lice.

**Barbasco**

The report states that several samples of barbasco root from Peru have been examined for the following results:—

	Good Derris Root			
	I	II	III	Root
Ether-extract ...	16.7%	21.0%	5.3%	15.20%
Rotenone... ..	6.1%	11.0%	traces	5-8%

The quality of the first two samples is regarded as good or very good; that of the third sample, which consisted entirely of pieces of root bark, as very unfavourable. On the whole, the quality of the barbasco root requisitioned from America seems to have been regarded favourably. With many parcels, however, there is the objection that the difference in the landed weight and that at the time of shipment from South America is about 30 to 40 per cent., a fact which points to a very faulty drying of the product. The evaporation in parcels of derris root during the voyage from India to Europe or America is rarely more than a few per cent. Biological tests made with barbasco root have not led to definite conclusions, but it is considered that with equal rotenone content preference must be given to derris root over barbasco, a distinction that should be due to the great effectiveness of the secondary substances of derris which, next to rotenone, occur in the ether-extract. Latterly culture tests were made in Malaya with *Lonchocarpus* varieties from British Guiana, viz.: with "white haiari" and "black haiari." In the Government Test Garden at Serdang both flourish, especially the white variety. Two years after harvesting the plants, roots still show a very low content of ether-extract and rotenone (calculated upon the dry substance 7.7 per cent. and 0.8 per cent., respectively, for the white, and 7.9 per cent. and 3.0 per cent. for the black variety, i.e., notably less than good derris root).

**Tephrosia**

Among the many varieties of the *Tephrosia* group there are some of which the leaf and/or root are used locally as fish poison. In that connexion are known the *Tephrosia vogelii*, Hook, indigenous to tropical Africa, *T. candida*, D.C., from continental Asia, *T. toxicaria*, Pers., at home in South America, *T. virginiana*, Pers., (*Cracca virginiana*, Linn.), from the Southern States of North America. Originally the roots of derris and *Lonchocarpus* varieties were only known for their toxic properties on fish, and only lately the lethal effect on insects became known. It was considered that in view of the poisonous effect on fish a study of the leaf and root of *Tephrosia* might reveal properties as insecticides, analogous to those of derris and *lonchocarpus* roots. Chemical examination, however, indicated the absence of the very important component rotenone, while the ether-extract was limited to not more than 5 per cent. After the chemical examination, the biological action of the root material was studied, including that from Surinam. A good quality derris root was examined by way of comparison. The chemical examination gave the following results:—

Variety	Origin	Liquid	Ether-extract
<i>Tephrosia candida</i> , DC.	... Java	8.7%	1.9%
<i>T. noctiflora</i> , Bojer	... ..	7.6%	3.5%
<i>T. vistita</i> , Vog.	... ..	7.6%	1.7%
<i>T. villosa</i> , Pers.	... ..	7.5%	3.8%
<i>T. toxicaria</i> , Pers.	... Surinam	7.0%	3.8%
<i>Derris elliptica</i> , Benth.	... D.-Indies	7-8%	17%



TWO BUNDLES OF REAPED CARAWAY

Left: Plants full of fruit, from the field sprinkled with derris dust mixture. Right: Plants without fruit taken from an untreated field which had been attacked by the caterpillar of the caraway moth.

In none of the *Tephrosia* samples was the ether-extract shown to be of even moderate significance. For the biological tests the finely ground root material was used in two ways, viz., as a sprinkling preparation and as a spray fluid. None of the five examined *Tephrosia* roots had, even in undiluted condition, any harmful effect on those insects against which it was tested; against this a similar treatment with derris powder, 1:4 diluted with kieselguhr, which contained 3.4 per cent. ether-extract, was always fatal. The root powder from *T. toxicaria* appears to have somewhat more effect on the leaf aphides, though still a very much weaker one than spraying with derris powder. It is concluded that the biological action of the examined *Tephrosia* roots is of little significance.

(We are indebted to the Museum for the loan of illustrations)

**Fish Poisoning by Derris**

THE Ministry of Agriculture and Fisheries has circulated the following notice to the Press:—"The Ministry desires to draw the attention of farmers, fruit growers and others to the poisoning of fish which may be caused by the presence in rivers or streams of solutions or powders containing derris root or rotenone or any preparation made from derris root. Derris preparations are now used extensively in agriculture and horticulture. Under the Warble Fly (Dressing of Cattle) Order of 1936 derris dressings are prescribed for the treatment of cattle infested with warble fly; and derris preparations are also in use as insecticides for the control of certain insect pests of fruit and vegetable crops.

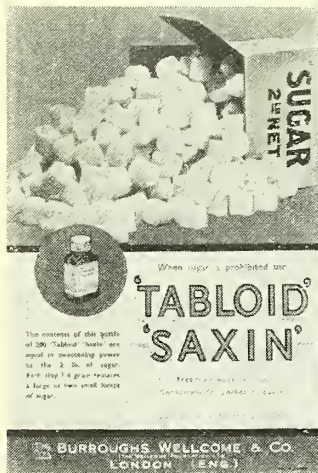
"When using derris preparations care should be taken to prevent any of the solution or powder entering rivers or streams containing fish. The practice of the washing, or the indiscriminate dumping, of containers of derris preparations in rivers or streams is to be strongly condemned. The Ministry accordingly appeals to all users of derris insecticides to take every possible precaution to prevent the poisoning of fresh water fish from this cause."

PORTUGUESE PHARMACEUTICAL CENTENARY.—A meeting was recently held to celebrate the centenary of the Sociedade Farmacêutica Lusitana.



## Trade Notes

THE SHOWCARD illustrated on this page has just been issued by Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1,



as a means of promoting sales of tabloid saxin. This showcard is printed in colour, and is a convincing indication of the relative concentration of saxin as a sweetening agent compared with sugar.

**TANNA-FLAVINE JELLY.**—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, are now issuing a tannin and flavine jelly which is intended for use in the treatment of burns. Tanna-flavine jelly is described as being suitable to form part of the equipment of first-aid outfits in industrial concerns, in schools and other institutions. This product is issued in collapsible metal tubes, an advance specimen of which was illustrated in our

Annual Special Issue. Full particulars of the method of treatment are available in a special booklet which may be obtained on application.

**RASPBERRY VINEGAR.**—New season's Raspberry vinegar is now available from J. C. Arnfield & Sons, Ltd., Gadsby Works, Princes Street, Stockport. Inquiries are invited for wholesale quantities.

**WARNING NOTICE.**—Brooks Appliance Co., Ltd., 80 Chancery Lane, London, W.C.2, publish in this issue a warning notice in regard to the use of the name Brooks, in connexion with the rupture appliance.

**INJUNCTION.**—Elsewhere in this issue, Scott & Turner, Ltd., Andrews House, Newcastle-on-Tyne, 2, publish a warning with regard to failure to observe the maintenance of the retail selling price of Andrews Liver Salt.

**NOVEL SHAVING FIXTURE.**—Scott & Bowne, Ltd., 10 Stonecutter Street, E.C.4, are offering to the trade a showcard which carries a holder for razor, shaving stick, brush and blades.

Full details as to how supplies may be obtained are given on the front cover of this issue. This fixture is bound to have an especial appeal to men who experience the early morning rush to business.

**"WOMAN AND BEAUTY."**—The Amalgamated Press, Fleetway House, Farringdon Street, London, E.C.4, draw attention to the value of one of their publications entitled "Woman and Beauty," as a means of reaching the beauty market. A special gift number will be published in November, press day being



September 18. Further details are given in our advertisement pages or may be had on application.

**PERFUMERY FOR CHRISTMAS.**—Morny, Ltd., 6 New Burlington Street, London, W.1, are advertising Christmas season's preparations, other details of which are given in this issue. Visitors are cordially invited.

**BONUS OFFER.**—The Leyland & Birmingham Rubber Co., Ltd., Leyland, announce that Monday, August 31, is the closing day for their special bonus offer of Pharnal hot-water bottles. Full details are given in our advertising pages.

**"BEAUTY A DUTY."**—Messrs. H. F. Bristow, Ltd., Colindale, N.W.9, announce in this issue the time and place of a display of Christmas goods. Messrs. Bristow, Ltd., are one of the oldest firms in the country, having been established during seven reigns, from 1777 to date.

**BONUS OFFER.**—Steradent, Ltd., 10/15 Chitty Street, London, W.1, are offering 10 per cent. and 5 per cent. discounts on Steradent, which is a preparation for cleaning and sterilising false teeth and dental plates. Full details are given elsewhere in this issue.

**REAL HORN COMBS.**—Flexolite Distributors, Ltd., Flexolite House, 4 Well Street, London, E.C.1, are offering real horn combs, manufactured in Aberdeen. A cabinet containing one dozen each of 8 lines of high quality horn combs is offered to the trade on terms detailed elsewhere in this issue.

**CHRISTMAS EXHIBITIONS.**—S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C.1, are organising no less than forty-two special displays of Christmas merchandise throughout Great Britain and Northern Ireland in addition to the permanent London exhibition. This is claimed as a sundries trade record.

**VETERINARY PRACTICE.**—J. Morrell & Co., Ltd., 57 Victoria Street, Liverpool, 1, are drawing the attention of chemists to "Red Heart" dog food which is hygienically packed in 1-lb. tins, and which it is claimed is a scientific food. Supplies are obtainable from usual wholesalers, or in case of difficulty, from the manufacturers.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1936, p. 322.

(From "The Trade Marks Journal," August 12, 1936.)

- "ERAXON" and "COFINAN"; for medicinal chemicals (3). By Noury's Pharmaceutical Laboratories, Ltd., St. Martin's le Grand, London, E.C.1. 569,747/749.
- "NISARHIN"; for medicinal chemicals (3). By F. Riddell, Ltd., Axtell House, Warwick Street, London, W.1. 569,701.
- "FANTESQUE"; for perfumery, etc. (48). By Parfumerie Roger & Gallet, S.A., 62 Faubourg St. Honoré, Paris. 567,465.
- "NICOTA"; for toilet preparations for teeth, etc. (48). By The County Chemical Co., Ltd., North Circular Road, Park Royal, London, N.W.10. 567,558.
- "RODOMEL"; for toilet preparations (48). By Rodomel Beauty Preparations, Ltd., Beauchamp Place, London, S.W.3. B567,603.
- Silhouette and name "Snowfire"; for perfumery, etc. (48). By F. W. Hampshire & Co., Ltd., Sinfim Lane, Derby. 567,922. (Associated.)
- Circle with flower and "Ashes of Roses" and "Ashes of Violets"; for all goods (48). By Bourjois, Ltd., Queen's Way, Croydon, Surrey. 567,993/569,072. (Associated.)

## Information Department

### INFORMATION WANTED

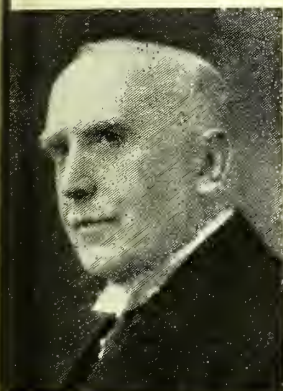
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| S/20. Astrub   | B/20. Fortisan pessaries                       |
| S/24. Bakelite Ribbonette automatic toilet cream containers (6d. line) | A/24. Invador dental plate brush               |
| C/26. Blake's herb tablets (London source)                             | H/20. K.W.V. grape juice                       |
| C/26. Blunt's Palm and Olive Soap                                      | B/26. Lumley's (or Lundy's) malt and oil       |
| B/26. Deathblow insect powder  | B/26. Merriman's apple tonic                   |
| S/25. Diabetic gin and whisky  | S/20. Morton's lavender perfume toilet ammonia |
|  | E/18. Parroutine dyes                          |
|  | B/20. Selmo slippery elm biscuits              |



## Deaths

**BURNS.**—In Dublin, recently, Mr. John Wesley Burns, P.S.I. After qualifying in 1903 Mr. Burns emigrated to Canada, where he tried many occupations. From Canada he went into the United States, and there returned to his own profession. In 1916 he went back to Ireland and threw himself actively into politics. For a time he filled the post of dispenser to the South Dublin Union, but during a strike there his sympathies lost him the work. For a brief period he went into retail business on his own account at Cole's Lane, Dublin, after which he became manager of a pharmacy in Cork. With the coming into office of the present Irish Free State Government he was reinstated as dispenser to the Dublin Union, a post which he held up to the time of his death.

**DICK.**—At Bellshill, Lanarkshire, on August 21, Mr. Alexander Anderson Dick, J.P., chemist and druggist, 227 Main Street, aged sixty-eight. Mr. Dick served his apprenticeship to Mr. James Stewart, Ph.C., Lasswade, Midlothian. After experience in Glasgow and with Symington & Fraser, Edinburgh, he studied under the late Mr. William Duncan, Ph.C., and qualified in 1892. In the same year he went to Bellshill as manager, and within eighteen months he commenced business on his own account in that town. Mr. Dick first became prominent in pharmaceutical affairs when the National Health Insurance Act of 1911 was being put into operation. He became a member of the Lanarkshire Insurance Committee almost from its inception, and during the past few years had been its chairman; he was also a past-president of the Scottish Association of Insurance Committees and a past-chairman of the Scottish Pharmaceutical Standing Committee. For six years he was a member of the Lanarkshire County Council. Mr. Dick's association with the work of the Pharmaceutical Society began on the North British Executive, in which he served for several years. His election to the Council of the Society on his first attempt in 1934 was an outstanding event which brought him many congratulations; and his subsequent speeches confirmed the impression that in him the Council had gained a notable addition. For eight years Mr. Dick was president of the Scottish Pharmaceutical Federation, a post for which his varied experience of public work had well equipped him. In 1919 he was appointed a county magistrate; and for a long period he was an elder of St. Andrew's Church of Scotland and president of the Bellshill Brotherhood. Mr. Dick is survived by a son and three daughters; one of the daughters, Miss Annie Dick, is a pharmacist and was associated with him in business. The interment took place at Bellshill on August 24. The Rev. Kenneth Macleod, B.A., of St. Andrew's Church, conducted the service. Among the large congregation were:—Mr. Thomas Guthrie (member of the Council of the Pharmaceutical Society), Mr. W. S. Culbert (vice-chairman of the North British Executive), Mr. J. Rutherford Hill, Mr. A. B. Gilmour (chairman) and Mr. J. H. Ramsay (vice-chairman) of the Glasgow and S.-W. Scottish Branch of the Pharmaceutical Society, Mr. P. M. Duff (president of the Scottish Pharmaceutical Federation), Mr. A. B. McLaren (Munro, McLaren & Sutherland), Mr. J. B. Surgenor (T. & H. Smith, Ltd.), Mr. John Paton, Mr. A. W. Thomas and Mr. H. W. Thomas.



Mr. A. A. Dick, J.P.

**DUFFUS.**—On August 20, suddenly, Mr. Alexander Scott Duffus, a director of Gill & Duffus, Ltd., produce merchants, 23 St. Dunstan's Hill, London, E.C.3.

**PROTHERO.**—At Porthcawl, on August 16, suddenly, Mr. George Rees Prothero, Ph.C. Mr. Prothero, who passed the Major examination in 1884, was in business at Walter Road, Swansea, and, for the past forty-eight years, at Treorchy, Glamorgan.

**RYAN.**—At his residence, 12 Lower Camden Street, Dublin, on August 20, Mr. Michael Ryan, P.C., L.A.H. Dublin, M.P.S.I. Dr. Ryan, who was a native of Raheen, co. Limerick, qualified as a Licentiate of the Pharmaceutical Society of Ireland in 1911, after which he took up an appointment as manager of a pharmacy in Cork. He went to Dublin two years later and opened a pharmacy of his own at 12 Lower Camden Street, where he remained for twenty-three years. He became a registered medical practitioner in 1924. For the past few years Dr. Ryan had filled the office of Governor of the Apothecaries Hall. On the Council of the Pharmaceutical Society of Ireland Dr. Ryan took an active part for several years; he held office as treasurer from 1926 to 1930, and was vice-president in 1930-31.



DR. M. RYAN, P.C.

Dr. Ryan leaves a widow and four children. Following requiem mass at University Church, Stephen's Green, Dublin, the funeral took place at Galbally, co. Tipperary. Among those attending were:—Mr. P. J. Hayes, L.P.S.I., and Miss Hayes; Mr. J. Gubbins, M.P.S.I.; Mr. F. J. Fitzpatrick, M.P.S.I., and Miss Fitzpatrick; Mr. P. Brady, M.P.S.I.; Mr. D. J. Nugent, M.P.S.I.; Mr. M. O'Callaghan, M.P.S.I.; Mr. P. J. Killacky, M.P.S.I.; Mr. Brendan Smith, M.P.S.I.; Mr. P. J. Darcy, L.P.S.I.; Mr. A. D. Davidson (May Roberts (Ireland), Ltd.); Mr. D. O'Sullivan, M.P.S.I.; Mr. J. W. O'Gorman, L.P.S.I.

**TOY.**—On August 25, Mr. Hubert George Toy, chemist and druggist, in business at 2 Duffield Road, Derby, since 1902, aged sixty-four. Mr. Toy succeeded the late Mr. C. D. Hart, for whom he formerly acted as manager. He was secretary of the Derby Branch of the Pharmaceutical Society, and had been chairman of the Derby and Derbyshire Insurance Committees and the North-East Midland Pricing Bureau. He had been in indifferent health for some months. Mr. Toy is survived by a widow and three sons.

## Personalities

Miss C. ISHERWOOD has been appointed to the management of the London showroom of S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C.1.

The representation of Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.6, in Yorkshire, Durham and Northumberland is now in the hands of Mr. R. B. Riley, 2 Knott Lane, Rawdon, Leeds.

We are informed that Mr. R. Pierce, the winner of this year's Fairchild scholarship, served his apprenticeship at the Hurstpierpoint branch of Savory & Moore, Ltd., and not at the branch with which he was afterwards associated (*C. & D.*, August 22, p. 223).

The text of the thoughtful and stimulating address delivered by Mr. T. Edward Lescher, O.B.E., chairman of the British Pharmaceutical Conference, to the Liverpool Chartered Accountants Students' Association (*C. & D.*, March 7, p. 269) has been printed in "The Accountant" of August 22.

## Coming Events

Wednesday, September 2

*Harrow Branch of the Pharmaceutical Society.* Visit to the Glaxo Laboratories, Greenford. Meet at Harrow Station, Metropolitan Railway (College Road entrance), at 2.30 p.m.

*International Chocolate and Confectionery Exhibition,* Olympia, London, S.W.14. Open until September 10.

**SPORTS MEETING.**—S.W. London Chemists' Association and Branch, Maw's Sports Ground, New Barnet, September 9. Entry forms from sports secretary, 58 Parsons Green, S.W.6.



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THE  
**CHEMIST AND DRUGGIST**

VOL. CXXV.

August 29, 1936

NO. 2951

### Whither Pharmacy?

THE subject "Whither Pharmacy?" is one which is of perennial interest to chemists who have, perforce, to give addresses at meetings of local associations or branches of the Pharmaceutical Society. It has, however, been left to the official organ of the Society to publish what must be regarded as a doleful prognostication of the future of pharmacy. In a recent issue, comment was made in regard to the growth of chain stores. Manufacturers, wholesalers and retailers have invited us to comment upon this astonishing forecast of the probable trend of pharmacy. This comment has, of course, been taken to represent the view of the Council of the Pharmaceutical Society, and in effect it is that in the distant future (which is placed at fifty years hence) there may be no master pharmacists at all, but only employee pharmacists, who are occupied in conducting branch businesses of multiple chain stores. All branches of the trade will no doubt be interested in the exclusive article which we are enabled to publish elsewhere in this issue as the result of an interview with the secretary of the Gracemont Trust, Ltd., whose operations apparently provoked the comment which seems to have caused considerable perturbation. It is a commonplace to state that the opening of chain stores in this country is not a novelty, yet it is to be added that an examination of the Stock Exchange prices, printed monthly in *THE CHEMIST AND DRUGGIST*, would suggest that chain stores are not such a formidable menace to pharmacy as they are held out to be. With one or two exceptions, chain stores to-day, so far as public companies are concerned, offer no better remuneration for the investor than any other industrial venture. A famous industrialist in this country, in a recent address, pointed out that pharmacy is the exception in successful chain store development. While it can hardly be said that this has been proved in every detail, yet as has often been pointed out in the columns of this paper, the chemist who owns his own business and can provide individual service can more or less defy chain store competition. An unfortunate point, so far as the drug trade is concerned, is that individual members of the Society have had little guidance, from the official source, which should be guide, philosopher and friend to those who have paid for the upkeep of the Society and by law must continue to pay.

If pharmacy as a whole is drifting towards the melting pot of "chain store-dom" (and we should be the last to make such a suggestion) some indication is surely due from the Council of the Pharmaceutical Society, which is elected, for the most part, by retailers to look after their interests. It is of interest to note that the post of managing director of the company which is to be established to control 250 chemists' shops is to be held by a member of the Council. Retail chemists have so long been governed by those whose interests are not entirely in the retail trade, that they may swing to the idea that a Council composed entirely of retail chemists is to the advantage

of the trade. Pharmacy as it now is is so much a mixture of the many branches and varieties of the retail sale of drugs and other products that it is difficult to envisage a Council whose interests are confined, as it were, to the four walls of a shop. It is further difficult to see how the trade as a whole (and in making this statement we include manufacturers, wholesalers and retailers) can view with equanimity the approach of high finance in the drug trade. There is, however, one encouraging point of view which must not be overlooked; if the drug trade is good enough to provide a field of investment for financiers, it should therefore be good enough for the individual chemist. The National Pharmaceutical Union recently issued a leaflet suggesting that chemists should hitch their wagon to a star. Just about the same time the official view of the Council of the Society was that pharmacy may be hitched to a store. It is time that chemists should receive some official guidance in these difficulties from their parent association, and if they cannot receive this guidance they should, in justice to themselves, use the vote to which they are entitled at the next election in favour of candidates who can, and will, protect the interest of retailers. It is hardly necessary to re-assert the view that the training which chemists have to undergo to-day entitles them to some recompense. It is indeed poor comfort to consider that as a result of the control of pharmacy, since the inauguration of the Society nearly a hundred years ago, all the newcomer can look forward to is a position as an employee or manager of a multiple chain store branch, and not as controller of his own business. Pharmacy owes much to the pioneers who inaugurated new methods of presenting medicine and invented formulas for members of the medical profession, who otherwise would have been at a loss to know how medicine should be presented. Our view is that the present-day pharmacist is in as good a position as any of his forbears to follow a successful and remunerative career, in view of the fact that his education is considerably ahead of that which is representative of other retailers. This is a statement of fact, and is put forward, not because chemists should imagine themselves to be superior to other retailers, but because they are, of necessity, better qualified for the battle of life.

### The Board of Trade

FOUNDED by an Order in Council dated August 23, 1786, when its purpose was for "the consideration of all matters relating to trade and foreign plantations," the Board of Trade this week celebrated its one hundred and fiftieth anniversary. It may also be mentioned that the department's weekly publication, the "Board of Trade Journal," reaches its fiftieth birthday this year. Prior to 1786 the history of the Government's activities and interest in trade consisted of a series of committees, which Sir Hubert Llewellyn Smith, in his book "The Board of Trade," refers to as "not so much an even flow of business as a series of short bursts of feverish activity followed by longer periods of comparative lethargy." Burke is recorded as having described the department as "a sort of gently ripening hothouse where eight members of Parliament receive salaries of a thousand pounds a year for a certain time, in order to mature at a proper season a claim for two thousand." The chief difference between the Board of Trade of 1786 and its predecessors in the form of Committees was in its strength and equipment of its staff, which was composed of seven clerks and a Vice-President.



It was some 30 years later before the office of President carried with it a salary. The Earl of Liverpool, who at the time was Charles Jenkinson, was the first President of the Board of Trade, and he held office for eighteen years—the longest period on record. The Archbishop of Canterbury and the Bishop of London were founder members of the Board, and it is recorded that at the first meeting the Primate raised the question of despatching Bishops to the North American colonies and to Nova Scotia.

The duties of the Board were interrupted by the Napoleonic Wars and the French Revolution. During these years the department was concerned almost entirely with questions of essential supplies and blockade. The meetings of the Board consisted of the President, sometimes accompanied by the Vice-President, and this system continued right up to 1853. Mr. Gerald Balfour, in replying to a question in Parliament on this point, said: "The Board of Trade meets whenever I attend and one is a quorum." Turning to more recent times, the department carried out an ever-increasing volume of duties and its importance and responsibilities increased accordingly during the years of the Great War. To facilitate the work various sections of the department were established as temporary ministries. Coming to the post-war years, the trade will recall that the department imposed the import and export restrictions, controlling certain classes of imports and exports by a system of licensing. It will be remembered that it was a member of the chemical trade, Mr. John Brown, of Brown & Forth, Ltd., who challenged the legality of these trade restrictions and his contention succeeded in the House of Lords. Then followed the first development of tariffs and control of imports when the department obtained power to licence imports of dyes, under the Dyestuffs (Import Regulation) Act, 1920, and later, the Safeguarding of Key Industries was introduced. Both these pieces of legislation were based on the need for building up the dye and fine chemical industries as essential to the nation in time of peril. Some years later, in 1932, the general import tariff was introduced under the authority of the Import Duties Act. Due to ever-changing conditions, the department has, from time to time during the past 18 years, found it necessary to institute other temporary measures in one form or another for the protection and welfare of British industry. In pre-war days the Board was concerned almost entirely with such subjects as international trade agreements, to-day it is prominently and directly concerned in taking steps to ensure the progress of our industries. The department's power and prestige was never greater than it is to-day.

### Sicilian Essential Oils

IN our issue of July 25 (p. 110) we commented upon the trade deadlock between Italy and this country, and up to the moment the unhappy position is unchanged. An important piece of information has, however, reached us this morning to the effect that the Palermo and Messina producers of essential oils have petitioned their Government to have their products included in the list of "privileged goods" which the authorities propose to permit to be exported without payment being made for same in advance or an irrevocable credit opened with an Italian bank. If this petition is successful it would mean that British importers of these products would make payment for the goods by remitting the amount to the Bank of England, who will hold it in a "Pool" as a cover against outstanding Italian debts. This information comes from an unofficial but usually reliable source, and it is accompanied by a note that

the producers and shippers of Sicilian oils are becoming anxious about the continued loss of business to this and other markets. We have been unable to obtain official confirmation of this development, and, of course, there is no news as to whether the Italian Government will accede to the producers and shippers' request. It is known that such a "privileged list" is in existence and quite recently certain fruits, lemon juice, borax, liquorice and pumice were included thereon. A few days ago a further "list," which included tartaric acid and cream of tartar, was notified, but in this instance payment by the British importer had to be made out of Italian lire held in the "blocked" account in Italy. Now, we are informed, the products on this second list are likely to be transferred to the first "privileged list" with payment made through the Bank of England. While the position is still somewhat obscure it is evident that efforts are being made to find a solution to the present deadlock and some official statement on the subject is anticipated at no distant date.

### The Story of the "Clinical"

THE clinical thermometer is apt to be taken for granted to-day. This is unfortunate, because behind it there is a story that holds the interest of every customer who hears it from his chemist. Thermometers were invented at the beginning of the seventeenth century and adapted to medical account some twenty years later. Yet for two and a half centuries they may be said to have stood still. Well after the middle of last century a cumbersome instrument some ten inches was in use fairly generally in English hospitals, very little in private practice and by laymen not at all. Had it not been for the inventiveness of a Yorkshire physician and the resourcefulness of the instrument makers, that might have been the state of affairs to-day. Instead, the clinical thermometer has become the medical man's inevitable preliminary to a diagnosis and, in thousands of homes, the criterion whether to "call in the doctor" or not. To how many pharmacists hitherto has its history been known?

## New Chemical Factory

ROCHE PRODUCTS, LTD., have taken a five-acre site at Welwyn Garden City for the erection of modern chemical and pharmacological laboratories. This company is connected with the Hoffmann-La-Roche organisation, a combine of manufacturing chemists making more or less identical products in its own factories in eighteen different countries. An interesting feature of the new factory, which will produce a wide range of original medical products, is that it will be the first large-scale manufacturing plant for synthetic vitamins—in particular Vitamin "C." The laboratories at Welwyn will be staffed with scientists of international repute. The interior and exterior designs for the buildings are the work of Professor Salvisberg, who is one of the world's leaders in architecture and Professor at the School of Architecture at the University of Zurich. Professor Salvisberg is working in conjunction with the London Architects, Messrs. Brown & Warman, 24 Aldermans Hill, Palmers Green, London, N.13, under whose supervision the buildings will be erected. Needless to say, the very latest ideas have been incorporated to ensure the health and comfort of all those who will be engaged there.

AIR-RAID HANDBOOK.—"Rescue Parties and Clearance of Débris" (Memorandum No. 2 of the Home Office publications on air raids) has been issued (price 2d.) by H.M. Stationery Office.

BRITISH TRADE WITH SWEDEN.—In a recent letter to "The Daily Telegraph" the following figures of manufacturers who send imports from the respective countries to Sweden are given:—Germany, 109; France, 34; U.S.A., 15; Great Britain, 14; Switzerland, 9; Austria, 6; Hungary, 5; Holland, 4; Czechoslovakia, 3; Canada, 1; Brazil, 1; Belgium, 1. The writer adds:—"The regulations in regard to the import of foreign pharmaceutical products into Scandinavia are simple and by no means prohibitive."



# The New Half-Million Retail Chain

The Secretary of the Gracemont Trust, Ltd., which has carried out the negotiations for the purchase of 250 established pharmacies in England and Wales, in an interview with a representative of the C. & D., gave the following information regarding the new £500,000 public company which is shortly to be floated for the purpose of financing and controlling this new chain of retail establishments.

"THE negotiations, both in regard to the purchase of the 250 established retail chemists' shops and the flotation of the half-a-million company to finance the 'chain,' have now reached the stage when it may definitely be stated that the project will materialise." Following this opening statement, the Secretary of the Trust Company continued, "We have practically concluded the negotiations for the purchase of the shops, and our solicitors are now completing the exchange of contracts for purchase. In quite a number of instances deposits have been paid and all the purchase contracts have to be completed not later than September 15 next." On the financial side, the Secretary said, "they had sufficient cash guaranteed to cover the deposits now being paid, and the successful flotation of the public company was assured as they had received more than one offer to underwrite the whole of the half-million capital. It was quite probable the whole of the shares would be taken up privately."

Our representative raised the question of the executive of the new company and said it was fairly general knowledge in the trade it was proposed that Mr. W. J. Beardsley, who is a member of the Council of the Pharmaceutical Society, was to be appointed managing director. "You will appreciate," said the Secretary, "that until the prospectus is lodged and formally registered the new company does not exist, and I have no authority to divulge particulars of the proposals of the personnel of the directorate. At the moment, all I can say is that the executive officers are not 'company promoters'; they are men who have had a long and wide experience of the trade."

Can you tell me the name of the new chain company? "No. I have not the permission of the company to tell you; it will be that of a very old-established London firm, who at present have some shops in the London suburbs. Actually, the whole scheme is a big development of this old concern."

When do you propose to offer the shares of the new company to the public? "The prospectus will be issued not later than early September, and with the capital we shall pay cash for the shops and commence trading at the end of September."

Have you formulated a policy for carrying on the chain of shops? "Yes. First, we are restricting our activities to taking over established businesses; we are not opening new premises. Secondly, we shall aim at price maintenance and our shops will be pharmacies, not general emporiums. We shall dispose of any stocks of bazaar-ware we may take over, and rigidly restrict our trade to drugs, medicines, proprietaries, cosmetics, photographic goods and similar chemists' lines. In this way we shall avoid overloading the trade with new shops, and we aim at improving the ones we take over."

Are your shops to be concentrated in any particular area? "No, but they are not scattered haphazard. Roughly, half the number will be in the home counties and the remainder in various industrial centres in England and Wales."

How do you propose to organise the management of the shops? "The present owners will carry on for a period as managers, and some may be offered contracts. The introduction of the name of the new company over the shops will be gradual."

Where will your headquarters be situated? "In London. While we shall not undertake any manufacturing, we shall develop a series of our own packed goods and proprietaries, which will be on sale only in our shops. Our shops are grouped in five areas, and we anticipate no difficulty in distributing our goods from headquarters economically."

Will you operate independently of any other chain company, druggists' sundriesmen, manufacturing chemists or chemical manufacturers? "Yes. We are not in any way

connected with any other chemical or drug house and we have not in view any such connexions."

In concluding the interview, the Secretary of the Gracemont Trust emphasised that "in floating the new company and taking over the 250 shops they were simply considerably extending the activities of a very old-established London chemists' business and had no intention of burdening the trade with a string of new shops."

The following are particulars of the registration of The Gracemont Trust, Ltd.: Registered as a "private" company on June 3, 1936. Objects: To offer for subscription, place, subscribe for, underwrite, purchase or deal in shares, stock, debentures, bonds and securities, to promote companies, to carry on business as an investment trust company, etc. The nominal capital is £12,000 in 10,000 6 per cent. redeemable preference shares of £1 each and 20,000 ordinary shares of 2s. each. No allotments had been recorded on the official file to August 26. The directors are: Markham H. Thorp, 20 Pembroke Road, Earl's Court, W.8, solicitor, and Frank Hyde, 45 Spring Grove, Loughton, Essex, chartered accountant. Qualification: one share. Solicitors: Thorp, Saunders & Thorp, 79 Salisbury House, London Wall, E.C.2. Secretary: F. G. Hankinson. Registered Office: 57 Gracechurch Street, E.C.3.

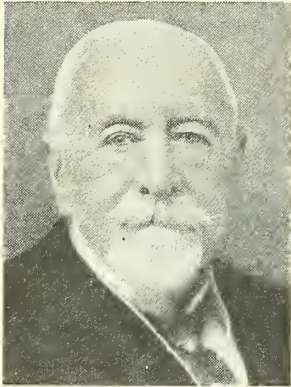
## Spurious Proprietaries in India

A CORRESPONDENT, who has had some years' experience of the trade in drugs and chemicals in India, sends us the following notes:—To-day, one of the most serious problems to be faced by manufacturers who market their products in India, is the ever-growing menace of the illicit traffic in spurious goods. Judging from the cases which come to light periodically, it would appear that well-known proprietaries and packed goods are looked upon as "lawful prey" by persons engaged in this nefarious business.

In one case an old-established Indian business house started investigations in connexion with the alleged counterfeiting of one of its lines. In course of the work it was discovered that the suspected people were also engaged in counterfeiting numerous other lines. Among them was one, manufactured by one of the leading English drug houses, that had been marketed in India for many years. This information was passed on to the local agent of the firm concerned and joint steps were taken to bring the suspects to book. It was found that the suspected persons were working in a room in one of the many old buildings in a suburb of the city and a man was engaged to watch their activities. To enable him to do this he posed as a perfumer and was fortunate enough to be able to rent a room in the same building. In due course word was received that certain goods were being packed. This evidence was sufficient to procure an order necessary for police activities and the place was raided. A large number of counterfeit goods, empty containers, labels, seals, etc., were seized and removed to police headquarters. In all, some five lorries full of goods came to light, including such well-known lines as Eno's Fruit Salt, Evans's liquid paraffin, Antiphlogistine, Squibb's Ague Specific, and Flit. Later, raids were made on various small printers, with the result that further labels, blocks, etc., came to light. The printers were each sentenced to four months' rigorous imprisonment.



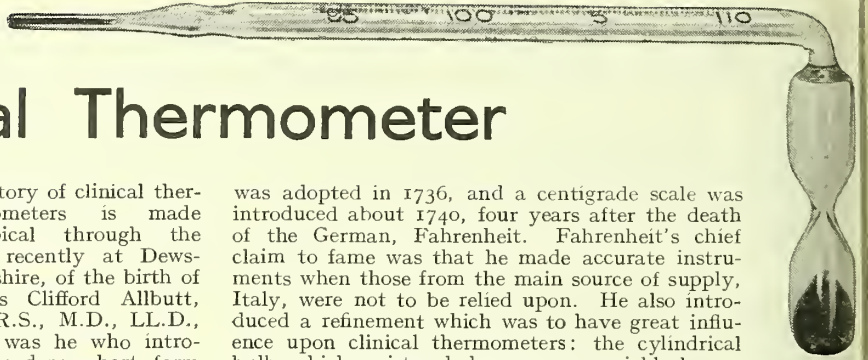
# Evolution of the Clinical Thermometer



Sir Clifford Allbutt, K.C.B.

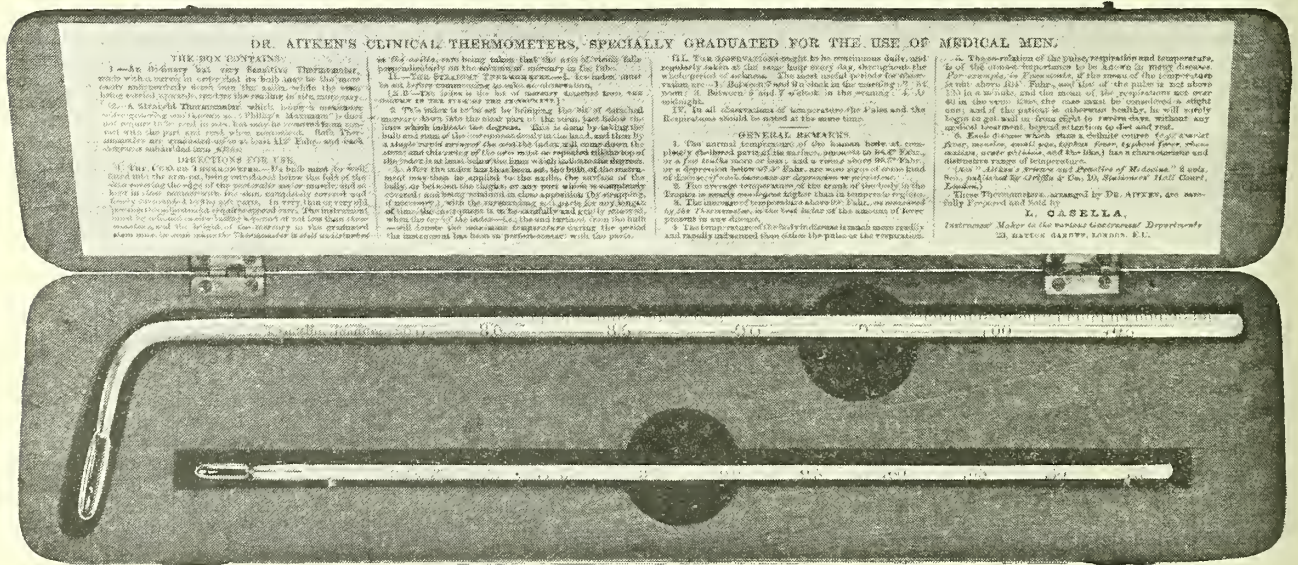
THE story of clinical thermometers is made topical through the celebration recently at Dewsbury, Yorkshire, of the birth of Sir Thomas Clifford Allbutt, K.C.B., F.R.S., M.D., LL.D., F.L.S. It was he who introduced the modern, short form of clinical thermometer in 1867. Older forms existed, such as that of Professor Aitken of Netley, Hants (still in use in the late 'sixties), but they were too large and cumbersome to become popular for general use. Dr. Aitken's thermometer, illustrated on this page, was ten inches long and had to be left five minutes before a reading was taken. Its chief use was in hospitals. The invention of thermometers is placed at 1592 and attributed to Galileo; some twenty years passed before the invention was put to medical uses by Santonio, Professor of Medicine at Padua University. Prior to the time of Santonio, temperatures of patients had been gauged by the physician's touch alone. Early clinical thermometers could have been hardly more precise than this guide, since they were without fixed graduations. Marks were made on the column with strips of tape and lesser divisions were measured and calculated with the aid of compasses; graduated scales were first provided in 1615 by Sagredo, a friend of Galileo. The earliest thermometers were not mercurial but contained alcohol coloured with dragon's blood or similar colouring. Their range depended on the skill of the glassblowers, which developed with practice until a tube of almost any length could be drawn. It is a point of interest that in the seventeenth century physicians were satisfied with four divisions on their thermometers, against the sixty-four used at the time by scientific workers. Mercury

was adopted in 1736, and a centigrade scale was introduced about 1740, four years after the death of the German, Fahrenheit. Fahrenheit's chief claim to fame was that he made accurate instruments when those from the main source of supply, Italy, were not to be relied upon. He also introduced a refinement which was to have great influence upon clinical thermometers: the cylindrical bulb, which registered changes more quickly by exposing a larger surface. Earlier bulbs had been spherical. The Fahrenheit scale, still used in this country, was conceived in a curious and arbitrary way. The thermometer was placed in a mixture of ice, water and ammonium chloride to determine the zero. Taking as his upper fixed point the temperature of the body, he divided the interval into twice the number of parts into which Newton before him had divided his ice-water-to-body-temperature range. He still found the "degrees" too large, however, and divided each into four again, making 96. On this scale the freezing-point of water stood at 32° and, when it was extended by equal divisions, the boiling-point became 212°. Despite Fahrenheit's precise workmanship, the making of thermometers remained primarily an Italian industry, and by Italians the art was brought to this country. It will be noted from the illustration that Dr. Aitken's thermometer itself bears an Italian maker's name, though the address given is in Hatton Garden, London. Little progress was made in thermometers for over a century, and it remained for Dr. Allbutt, while at Leeds infirmary, to make a fundamental improvement. Dr. Allbutt had a pocket thermometer prepared to his own design by Harvey & Reynolds, Leeds (forerunners of Reynolds & Branson, Ltd.). The new instrument, handier in size, was also much speedier in use. Numerous refinements were attempted by various makers and out of a new period of experiment the present perfected instruments evolved. The chief drawback the makers attempted to remove was the time necessary for an accurate reading. One ingenious recognition of this was the self-timer (similar to an egg-timer) attached to the thermometer illustrated at the head of this article. This was not a success. Efforts were made to reduce the time



An early self-timing instrument

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Dr. Aitken's clinical thermometers, photographed alongside a modern short thermometer and case for purposes of comparison

### DR. AITKEN'S CLINICAL THERMOMETERS, SPECIALLY GRADUATED FOR THE USE OF MEDICAL MEN.

**THE BOX CONTAINS:**  
 1. An Ordinary but very Sensitive Thermometer, with which a nurse in charge that the bulb may be the same count minutely down over the bulb, while the lower portion remains stationary the reading is infallible.  
 2. A Standard Thermometer which is constructed of superior glass known as "Phillips' Medicine" glass and is provided with a bulb which may be removed from the part and used when convenient. Both Thermometers are graduated upon a scale of Fahrenheit and each contains a small quantity of water.

**DIRECTIONS FOR USE:**  
 1. The Glass is to be inserted in the bulb into the rectum, being introduced below the fat of the back and the edge of the posterior sac or muscle and not to be inserted in any other part of the body.  
 2. The Thermometer is to be held in the hand and the bulb is to be kept in contact with the rectum for the space of five minutes. The instrument is to be held in the hand of the rectum in the upright position and the bulb is to be kept in contact with the rectum for the space of five minutes.

the rectum, being taken that the use of a thermometer is the most accurate and reliable method of ascertaining the temperature of the body. In order to be able to take a reading of the temperature of the body in a few minutes, the thermometer is graduated upon a scale of Fahrenheit and each contains a small quantity of water.

2. The glass is to be held in the hand and the bulb is to be kept in contact with the rectum for the space of five minutes. The instrument is to be held in the hand of the rectum in the upright position and the bulb is to be kept in contact with the rectum for the space of five minutes.

3. After the use of the thermometer, the bulb is to be kept in contact with the rectum for the space of five minutes. The instrument is to be held in the hand of the rectum in the upright position and the bulb is to be kept in contact with the rectum for the space of five minutes.

1. The thermometer should be removed daily, and regularly taken at the same hour every day, throughout the day or night, or at intervals. The most useful time for the observation is at 9 o'clock and 3 o'clock in the morning, 7, 10, 11, 12, and 5 o'clock in the day, and 7 o'clock in the evening, 4, 5, 10, and 11 o'clock.

2. In all observations of temperature the Pulse and the Respiration should be noted at the same time.

**GENERAL REMARKS:**  
 1. The normal temperature of the human body at rest is 98.6° Fahrenheit, or 37° Celsius, and is constant throughout the day or night, or at intervals. The most useful time for the observation is at 9 o'clock and 3 o'clock in the morning, 7, 10, 11, 12, and 5 o'clock in the day, and 7 o'clock in the evening, 4, 5, 10, and 11 o'clock.

2. The temperature of the body is not constant throughout the day or night, or at intervals. The most useful time for the observation is at 9 o'clock and 3 o'clock in the morning, 7, 10, 11, 12, and 5 o'clock in the day, and 7 o'clock in the evening, 4, 5, 10, and 11 o'clock.

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4. The observation of the pulse, respiration and temperature is of the utmost importance to be known in every disease. The normal temperature of the human body is 98.6° Fahrenheit, or 37° Celsius, and is constant throughout the day or night, or at intervals. The most useful time for the observation is at 9 o'clock and 3 o'clock in the morning, 7, 10, 11, 12, and 5 o'clock in the day, and 7 o'clock in the evening, 4, 5, 10, and 11 o'clock.

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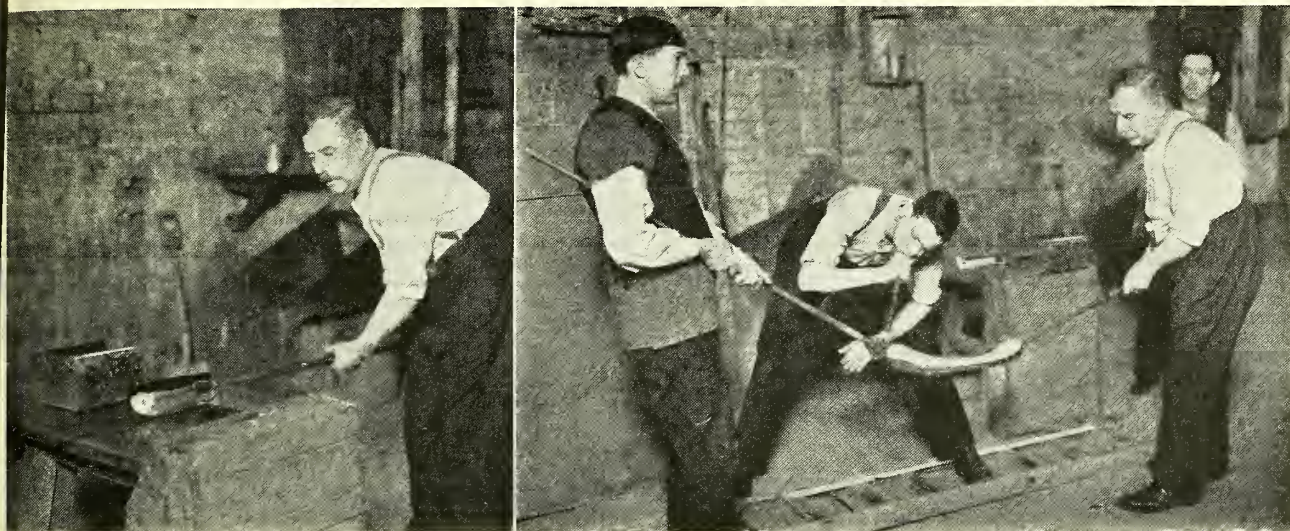
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**I. CASSELL,**  
 Instrument Maker to the British Government, Department of Health, Hatton Garden, London, E.C.1.



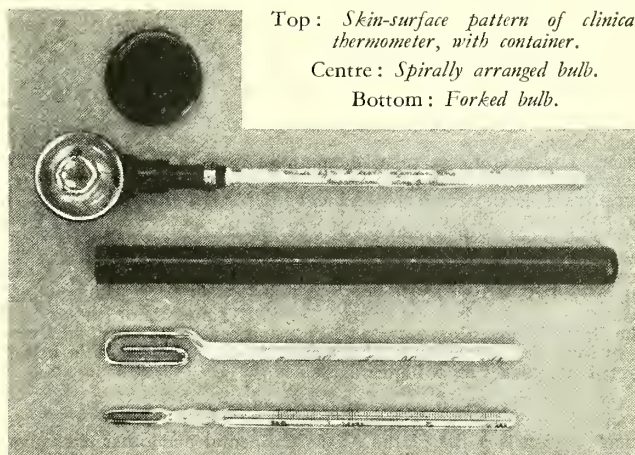


[By courtesy, James Powell & Sons (Whitefriars), Ltd.

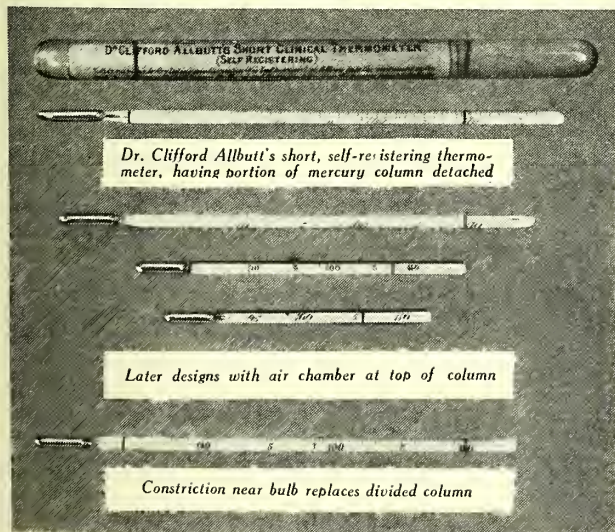
Left: "Marvering" (a ball of "metal" (glass) before drawing it into tube for clinical thermometers. Right: "Drawing" the tube

factor by increasing the surface of mercury exposed. Forked and spirally coiled bulbs, as illustrated, were among the solutions, but these in turn have passed. Higher standards of workmanship have rendered them obsolete, but the difficulty is not completely solved even to-day. This is apparent from the revised British standard specification for clinical thermometers recently issued (*C. & D.*, August 15, p. 168), which contains the statement: "Experience shows that this time is very variable, being affected by the physical condition of the patient, the skill with which the thermometer is placed in position, the initial temperature of the thermometer and other factors." However, it is to be noted that the so-called "half-minute" thermometer is the type decreed as standard, even though the description "half-minute" is discontinued as misleading. A form of clinical thermometer sometimes encountered is intended to be placed against the skin; an example of this is illustrated, in which the bulb is set in a parabolic reflecting surface to facilitate rapid readings. It is fitting to conclude with a tribute to the skill of the glassblowers who have made these instruments possible; two early stages in the drawing of the thermometers are illustrated. The glass, which is usually of the lead type, is melted in a pot, known in the worker's jargon as the "glory hole." A workman pushes into this a

very long metal tube, and abstracts a large blob of the glass, or "metal." He then blows through the tube into the centre of this blob so that a small bubble is formed. The ball of glass is then "marvered" or rolled into a somewhat cylindrical shape, so that the air bubble becomes oval rather than round. At this stage, another workman attaches a quantity of "metal" from the "glory hole" to a rod, and this ball of glass is attached to that held by the first workman. The two workers walk slowly apart, thus elongating the cylinder. The cylinder of glass is measured by calipers to note when it is of the correct diameter, when it is cooled by fans or by blowing on cooled air through a tube by a third worker, as illustrated. To obtain the white coating on the tube, this is dipped



Top: Skin-surface pattern of clinical thermometer, with container.  
Centre: Spirally arranged bulb.  
Bottom: Forked bulb.



Dr. Clifford Allbutt's short, self-registering thermometer, having portion of mercury column detached

Later designs with air chamber at top of column

Constriction near bulb replaces divided column

An exhibit of clinical thermometers at the Museum of the Royal College of Surgeons, London, by kind permission of the Curator. The thermometers were presented by Reynolds & Branson, Ltd., Leeds

for a part of its circumference into white enamel. When dry, this part is again dipped into molten glass. Several methods have been devised for preventing the mercury from running back to the bulb when the temperature has been taken. In some of the older models, an air bubble was incorporated in the mercury column, but the modern method is more ingenious. At the end of the bulb, a bulge is blown in the tube, the air from which is next exhausted, so that there is a fairly complete vacuum. Part of the bulge is then submitted to a needle-shaped flame, which causes a V-shaped indentation. This indentation acts as a valve when the temperature is being taken. The heat of the body causes this valve to open; when removed from the body, the valve rapidly cools and closes, and thus prevents the mercury from running back.

For all illustrations not separately acknowledged the Editor is indebted to G. H. Zeal, Ltd., London.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 27

RATHER MORE BUSINESS than is usual at this period of the year is reported, the demand from the provinces being particularly noticeable. The general tone is quite steady and the breakdown in supplies of an increasing range of natural products is having the natural effect of stiffening spot values of these commodities. The demand for PHARMACEUTICAL CHEMICALS has shown some improvement this week, and is likely to continue during the next few weeks. MERCURIALS are firm; otherwise there is little to comment upon. It is unofficially reported from Italy that it may be possible, under certain conditions, to ship TARTARIC ACID and CREAM OF TARTAR to this country in the near future.

## Crude Drugs

Business in a number of these markets has been unusually good for the time of year, and many items are firm at higher spot values. Spanish and Italian produce in particular is in short supply, and the position may become acute in due course. AGAR is steadier on spot. CAPE ALOES cleared on spot; shipment prices for CURAÇAO are dearer. BUCHU has been dull this week. The shipment market for CASCARA SAGRADA is very firm and spot values are fully maintained on a generally short market. CLOVES tend dearer. A full report on ERGOT shows the position to be extremely tight. Sudan GUM ACACIA is steady. HYDRASTIS continues to be quoted firm from the source. Good sales of MATTO GROSSO IPECACUANHA on spot and shipment is reported dearer. Little doing in LOBELIA HERB. Spanish-Italian MERCURY is now quoted nominally. Japanese MENTHOL has sold quite well, mostly spot orders, this week; shippers' prices are firm and gradually moving up. The Chinese product is following the market. Practically no ORRIS ROOT left on spot. Better supplies of SHENSI RHUBARB are available here; demand quiet. Quotations for SAFFRON vary as to seller, with supplies being carefully conserved. SENNA has had a quiet week. The demand for TRAGAANTH has quietened down, but supplies of the better grades remain very low. Waxes show no material change and are quiet.

## Essential Oils

A fair business is reported in some lines, but the general tone is rather quiet. Consumers of ANISE (STAR) have only a small supply at their disposal on spot and the source is still not offering and is ignoring inquiries. The demand for BERGAMOT and the other SICILIAN oils has been of small importance, but holders' prices are being fully maintained. Editorial comment on the shipment position on p. 250. Shipment prices for CANANGA are somewhat easier. CASSIA is neglected, with some inferior oil on spot. CIRONELLAS tend to be steadier. CLOVE oils are fully steady. Australian EUCALYPTUS is firm on spot and only distant positions are quoted for shipment. The cold-pressed Californian LEMON has been in steady demand, and supplies are now very modest. LEMONGRASS has been slack. The spot sale of French Guinea ORANGE seems to be slow. Seychelles PATCHOULI is firm and in inadequate supply. Japanese PEPPERMINT has had a good week, with shippers tending to firm up their prices on account, so it is reported, of poor crop. The Spanish oils, ROSEMARY and SPIKE, are firm on spot, with no news from the source as to the new crop oils. SPERMINT is being quoted irregularly on a higher basis.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	August 27	Value of the £
Amsterdam	Fls. to £	12·107	7·41	12/3
Berlin	Mks. to £	20·43	12·51	12/3
Brussels	Belgas to £	nominal	20·81	17/0
Copenhagen	Kr. to £	18·159	22·40	24/8
L. sbon	Esc. to £	110	109½	19/11½
Madrid	Ptas. to £	25·22½	40½ nominal	31/9
Milan	Lire to £	92·46	63½	13/10
Montreal	Dol. to £	4·86½	5·03½	20/8
New York	Dol. to £	nominal	5·03½	20/8
Oso	Kr. to £	18·159	19·90	21/11
Paris	Fr. to £	124·21	76½	12/3½
Prague	Kr. to £	164·25	121½	14/10
Stockholm	Kr. to £	18·150	19·30½	21/11
Warsaw	Zloty to £	43·38	26½	12/3
Zurich	Fr. to £	25·2115	15·44	12/3

Bank rate 2 per cent

## Pharmaceutical Chemicals, etc.

For the time of year business is reported to be well up to average, but more inquiry is expected in the next few weeks. Mercurials continue firm, with some anxiety as to the future supply of the metal. Vanillin is firm and should be watched.

ACETANILIDE.—Business quiet, market steady: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRINE.—Remains slack and unsteady: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Steady routine business in small orders is being done, with prices at the former levels: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins., and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Fair amount of business, prices firm: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Dull and irregular on quotation: spot, one cwt., 15s. 3½d.; 50 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Fair business; prices steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices are unchanged: carbonate, P.B., one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Rather quiet demand, controlled prices steady: Home trade, Potassium B.P., not less than 5 cwt., 1s. 7d.; not less than one cwt., 1s. 8d.; not less than 28 lb., 1s. 11d.; 14 lb., 2s. 1d. per lb. Sodium, B.P., not less than 5 cwt., 1s. 9d.; not less than one cwt., 1s. 10d.; not less than 28 lb., 2s. 1d.; 14 lb., 2s. 3d. per lb. Ammonium, B.P., not less than 5 cwt., 1s. 10d.; not less than one cwt., 1s. 11d.; not less than 28 lb., 2s. 2d.; 14 lb., 2s. 4d. per lb., net. 28 lb. parcels and one cwt. cases free. Distributors' prices for quantities less than 14 lb. would be at higher figures. Scales of prices for export, quoted f.o.b. London for prompt shipment, are as follows: POTASSIUM, 5 cwt., 1s. 1½d.; one cwt., 1s. 2d. SODIUM, 5 cwt., 1s. 2½d.; one cwt., 1s. 3d. AMMONIUM, 5 cwt., 1s. 4d.; one cwt., 1s. 4½d. per lb.

BUTYL CHLORAL HYDRATE.—Values unchanged, business slow: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 56 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—A fair business continues at former prices: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices unchanged: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Prices asked by the makers are: two cwt., 2s. 5½d.; per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quantity of 8 lb. Packed in drums, ½d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Seasonal business: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE AND NITRATE, 25 oz. and over, 20s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 6d. per oz. PURF, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller



acking extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 4s. 1d.; 4 oz. and less than 8 oz., 3s. 7d.; 2 oz. and less than 4 oz., 5s. 5d.; 1 oz. and less than 2 oz., 3s. 5d.;  $\frac{1}{2}$  oz. and less than 1 oz., 7s. 11d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.;  $\frac{1}{2}$  oz. and less than 1 oz., 40s. 8d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 43s. 8d. per oz., packages extra. Re-sale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. These scales of prices do not apply to export business, particulars of which may be obtained from the usual sources of supply.

CREAM OF TARTAR.—Fair business, market steady: British material, 99 to 10 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

HEXAMINE.—Makers' prices for bulk quantities are keen; moderate business: B.P. powder, from 1s. 3d. to 1s. 4d.; free-running crystals, from 1s. 4d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 5d.; one cwt., 1s. 6d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Makers' prices continue steady at the following scales: POTASSIUM IODIDE, B.P., for quantities not less than one cwt., 4s. 6d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s. 4d.; 4 lb., 5s. 10d.; smaller quantities, 6s. 6d. per lb. SODIUM IODIDE, B.P., for quantities not less than 28 lb., 5s. 6d.; 14 lb., 5s. 8d.; 7 lb., 6s. 2d.; 4 lb., 6s. 10d.; smaller quantities, 7s. 10d. per lb. IODIDE, B.P., resublimed, for quantities not less than one cwt., 5s. 6d.; 28 lb., 5s. 8d.; 14 lb., 5s. 10d.; 7 lb., 6s. 4d.; 4 lb., 7s.; smaller quantities, 7s. 11d. per lb. IODOFORM, B.P., crystals, precipitated or powder, for quantities not less than 28 lb., 8s.; 14 lb., 8s. 2d.; 7 lb., 8s. 10d.; 4 lb., 9s. 8d.; smaller quantities, 10s. 8d. per lb. Sales terms: Contracts for one cwt. or more (assorted if required) with "Fall Clause," for delivery over four months. No rebate now applies. Packages: Tins, 28-lb. jars and one-cwt. cases, free. Bottles extra or returnable within three months, carriage paid. Delivery: Carriage paid on all quantities. Re-sale: It is a condition of sale that buyers undertake not to re-sell at prices below or on terms other than those ruling at the time of re-sale.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100 oz., 10½d., in 100-oz. tins; 10½d., in 25-oz. tins; 11d., in 16-oz. bottles; 11½d., in 4-oz. and 8-oz. bottles; 1s. 0½d., in 1-oz. bottles; less than 100-oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

LACTIC ACID (B.P.).—Prices remain steady at the previous rates: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10½d. per lb., as to quantity.

MERCURIALS.—Makers' scales of prices continue at the advance recorded last week: new prices, not less than one cwt., ammoniated, B.P., lump, 5s. 5d.; powder, 5s. 7d.; bichloride, B.P., lump, 4s. 8d.; powder, 4s. 4d.; chloride, B.P., 5s. 5d.; yellow oxide, B.P., 5s. 10d.; persulphate, white, B.P.C., 5s. 7d.; sulphide, black (hyd. sulph. cum sulph., 50 per cent.), 5s. 6d.; less than one cwt., ammoniated, B.P., lump, 5s. 6d.; powder, 5s. 8d.; bichloride, B.P., lump, 4s. 9d.; powder, 4s. 5d.; chloride, B.P., 5s. 6d.; yellow oxide, B.P., 5s. 11d.; persulphate, white, B.P.C., 5s. 8d.; sulphide, black (hyd. sulph. cum sulph., 50 per cent.), 5s. 7d. per lb. Special prices for large quantities.

METHYL SALICYLATE.—Market remains dull: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, 2s. per lb.

METHYL SULPHONAL.—Dealers' prices are unsteady, business quiet: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARAFORMALDEHYDE.—Business on the quiet side: 100 per cent. powder, quantities, in kegs, 1s. 1d.; smaller parcels, up to 1s. 9d. per lb., as to quantity.

OXALIC ACID.—Dealers are quoting imported material, duty paid, at about £48 15s. per ton, in casks, carriage paid.

PHENACETIN.—Market is steady but rather quiet: crystals or powder, bulk quantities, 2s. 6d. to 2s. 7d.; smaller parcels, 2s. 7½d. to 3s. per lb., as to quantity.

PHENAZONE.—Dealers find the demand small, market competitive: crystals, 8s. 9½d.; five cwt., 9s. 0½d.; two cwt., 9s. 0½d., and less, 9s. 3d. per lb., with powder 2d. per lb. extra.

PHENOLPHTHALEIN.—Market continues competitive: two cwt., 2s. 9d. one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHOTOGRAPHIC CHEMICALS.—AMIDOL.—28 lb., 7s. 6d.; 14 lb., 8s. 3d.; 7 lb., 9s.; under 7 lb., 11s. 9d. per lb., in 1-lb. bottles. CHLOROQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d.; 3 lb., 11s. 6d.; 1-lb. bottles, 12s. 6d. per lb. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt. 28 lb. for 6s. GOLD CHLORIDE.—15-grain tube, 52s. 6d. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDROCHLOR.—

8s. 6d. per lb. POTASSIUM FERRICYANIDE.—14 lb., 2s. 3d.; 7 lb., 2s. 6d.; 1 lb., 2s. 9d. per lb. POTASSIUM METABISULPHITE.—One cwt., 7½d.; 28 lb., 8d.; 14 lb., 9d.; 7 lb., 11d.; 1 lb., 1s. per lb. PYROGALLIC ACID.—28 lb., 6s. 9d.; 14 lb., 7s. 6d.; 7 lb., 8s. 3d.; under 7 lb., 8s. 9d. per lb. SODIUM CARBONATE (RECRYST).—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 16s. 3d.; 1 cwt., 18s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 3d.; 1 lb., 1s. 6d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Quoted from 6s. to 6s. 3d. per lb., as to quantity. Business remains very quiet, and there is keen competition.

QUININE SALTS.—Convention prices were advanced as follows from June 8: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—Occasional small business; quoted unchanged: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Market is dull: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SANTONIN.—First hand prices steady at the recently agreed scales: 10-kilo. lots, £20 11s.; 3-kilo. lots, £21; 1-kilo. lots at £21 15s.; quantities of less than one kilo., £22 15s. per kilo. Special prices for export buyers. Second-hand parcels are offering at competitive prices.

SODIUM BENZOATE (B.P.).—Moderate business at keen prices: bulk quantities, about 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10½d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Market remains dull: spot, one cwt., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels up to 14s. per lb.

SODIUM SALICYLATE (B.P.).—Market steady, business quiet: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 11d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—There is little activity in this market; prices quoted: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Fair business at former prices: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

THIOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Not much business moving: synthetic, fine white, two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; smaller parcels, 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. per lb.

VANILLIN.—Convention prices are steady: ex clove oil or guaiacol, five cwt., 12s. 9d.; one cwt., 13s.; 56 lb., 13s. 3d.; less, 13s. 9d. per lb.

### Crude Drugs, etc.

ACONITE ROOT.—Occasional inquiry for small parcels of Japanese with the spot quotation about 45s. per cwt.

AGAR.—Fair spot demand, with the cheap parcels now cleared; shipment quotations steady: spot, Kobe No. 1, 2s. 7½d.; No. 2, 2s. 5d.; Yokohama No. 1, 2s. 5d. per lb.; shipment, Kobe No. 1, 2s. 5½d.; No. 2, 2s. 2½d.; Yokohama No. 1, 2s. 1½d. per lb., c.i.f.

ALOES.—Practically all Cape cleared on spot, with value now nominal; nothing offered for shipment. The Dutch West Indies report crop of Curaçao has not come up to expectations, and their shipment quotations have advanced: Curaçao, spot, 92s. 6d. to 100s.; shipment, from source, 92s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude is quoted for September-October shipment at £24 10s., c.i.f. English regulus, on spot, £64 10s. to £65 10s.

BALSAMS.—Not much business moving: *Tolu*, 1s. 9d. to 1s. 10½d.; *Canada*, 2s. 9d.; *Peru*, 5s. 4d.; *Copaiba*, 1s. 2½d. per lb.

BUCHU.—The Cape report practically nothing left in stock. On spot the limited quantity of rounds are quoted from 2s. 9d. for stinky off-colour up to 3s. for good stuff. Ovals are scarce at about 2s. 6d. per lb. Demand quiet this week.

CAMPHOR.—Average small spot business, quoted unchanged: Japanese, spot, tablets, 2s. 5d.; powder, 2s. 2½d.; slabs, 2s. 2½d. per lb., duty paid; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.;  $\frac{1}{2}$  oz.,  $\frac{1}{3}$  oz. and  $\frac{1}{4}$  oz., 3s. 6d. per lb. Contracts at special prices.



**CANTHARIDES.**—Some small spot business: spot, Russian, 6s.; Chinese, 2s. per lb., as to quantity; shipment, 1s. 5½d. per lb., c.i.f.

**CARDAMOMS.**—Supplies continue extremely short, with the main offering Bombay seed at 4s. 2d. spot and 3s. 10½d. per lb., c.i.f. Aleppy, green, October-November shipment, 2s. 8½d. per lb., c.i.f.

**CASCARA SAGRADA.**—The position here continues firm, due to the paucity of new crop and shortage, which is general, of old peel. The source makes limited offers of 1936 peel from 49s. 6d. to 52s. 6d. and 1934 peel at about 53s. 6d. per cwt., c.i.f. On spot, 1933 and 1934 peel is available at 65s. to 67s. 6d. per cwt.

**CHAMOMILES.**—Some shipments of new crop first pickings have been landed here, and are selling at about 112s. per cwt., duty paid.

**CLOVES.**—At the further advance the market is steady: Zanzibar, spot, 8d.; shipment, September-October, 7½d. per lb., c.i.f.; Madagascar, in bond, 7½d.; shipment, November-December, 7d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended August 22 were 11, and the deliveries 48, leaving a stock of 1,482. From January 1 to date the landings of Zanzibar have been 3,037 and the deliveries 2,400. Landings of Madagascar for the week ended August 15 were 596, and the deliveries 68, leaving a stock of 1,867. From January 1 to date landings of Madagascar have been 3,177 and the deliveries 2,672 packages.

**COCOA BUTTER.**—Prime English is quoted from 11d. to 1s. per lb. Foreign, from 10d. to 11d. per lb., as to quantity.

**COCONUT (DESICCATED).**—Market has been rather quiet this week, values steady: spot, fine, 23s.; medium, 22s. 6d. per cwt.; shipment, halves, August and September, 21s. 9d.; October, 22s. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports shipment market is quiet but fully steady, with finest Lofoten steam refined non-freezing medicinal oil quoted at 89s. per barrel, c.i.f. London. Newfoundland, non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 100s. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

**COLOCYNTH.**—Some pulp in bond is available at 2s. per lb.; U.S.P. quality for shipment is at 1s. 9d., c.i.f., with business reported done.

**DAMIANA LEAVES.**—Small parcels of good quality leaves are available on spot at about 9d. per lb.

**DANDELION ROOT.**—The price for foreign continues steady at 80s. per cwt., spot.

**DERRIS ROOT.**—This market is without interest at the moment. Shipment offers are being received with October-December at about 10d. per lb., c.i.f., for 17 per cent. ether extract.

**ERGOT.**—There are still no offers of Spanish for shipment, and no reliable news as to new crop. Russian is also not offering. In Portuguese business reported done for shipment at 4s. 6d., c.i.f., and further bids at this figure were countered with suggestions of 5s. 3d. to 5s. 4½d., c.i.f., with requests to leave the orders with the shippers for a day or two. It seems the shippers in Lisbon and Oporto are only purchasing from the collectors against orders. Orders sent out to Poland on the basis of 4s. per lb. brought no reply. On spot, some Portuguese has been mentioned up to 5s. 3d. up to 6s. per lb. Generally the position is very tight.

**GENTIAN.**—Good French root is quoted on spot from 40s. to 42s. 6d. per cwt., as to quantity.

**GINGER.**—Business in West African has been slow: West African, spot, 67s. 6d.; shipment, 62s. 6d. per cwt., c.i.f.; Jamaican, spot, bold, in barrels, 85s. to 90s.; small grinding, 62s. 6d. to 65s. per cwt., in bags, ex store.

**GUM ACACIA.**—Market has been quiet this week: spot, Kordofan cleaned sorts, 42s. 6d.; bleached No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 39s. 6d. per cwt.

**HENNA.**—There is little interest at present, with Indian and Egyptian leaves 27s. 6d. to 35s. per cwt., as to quality and quantity.

**HYDRASTIS.**—Market continues firm at the source at 11s., c.i.f., with first-hands quoting spot at 11s. 3d. per lb.

**IPECACUANHA.**—Quite a good demand for home and export. Matto Grosso, B.P., 5s. 1½d. to 5s. 3d. per lb., shipment, 4s. 11d. per lb., c.i.f. Brazil reports shipment prices have advanced 2d. per lb.

**LIQUORICE ROOT.**—Moderate inquiry with natural root steady at about 12s. 6d. per cwt., spot.

**LOBELIA HERB.**—Holders on spot are quoting from 7½d. upwards with September-October shipment at 5½d. per lb., c.i.f. Very little interest shown.

**LYCOPodium.**—Spot supplies scarce and firm at 4s. 9d. per lb.; shipment, about 3s. 6d., c.i.f.

**MENTHOL.**—The demand this week for Japanese B.P. has been good, with K/S brands now quoted at 13s. 4½d. per lb. In bond, 11s. 9d. to 11s. 10½d. Japanese shippers' prices are firmer with August-September at 11s. 10½d., c.i.f., with re-sellers at 11s. 9d., c.i.f.; October-December, shippers, 11s. 9d. and re-sellers at 11s. 7½d. per lb., c.i.f. January-March has been cabled at 11s. 10½d. CHINESE

B.P.—Moderate inquiry, with spot at 13s. 3d. per lb. and September-October at 11s. 9d. per lb., c.i.f. ENGLISH SYNTHETIC MENTHOL is quoted from 7s. 6d. to 10s. 6d. per lb., as to quality and quantity.

**MERCURY.**—The Spanish-Italian combine report spot stocks practically cleared and nothing coming forward from Spain at the moment, but they are hopeful of shipments at no distant date; prices quoted are nominal at 62 dollars 50 cents per bottle, f.o.b., Continent; spot, in small lots, £12 12s. per bottle, ex store.

**OPIMUM.**—Spot business on small lines at former prices: spot, Turkish, 1s. 2d. to 1s. 3d. per unit, landed and duty paid.

**ORRIS ROOT.**—Exceedingly scarce and value is now nominal at about 62s. per cwt.

**PEPPER.**—Business has remained very slow. Lampong, in bond, 2½d.; shipment, August-October, 2d.; October-December, 2½d.; January-March, 2½d., c.i.f. Tellicherry, spot, 5½d.; shipment, September-November, 33s. 6d., c.i.f. Aleppy, spot, 5½d.; shipment, September-November, 32s. 6d., c.i.f. White Muntok, in bond, 4½d.; shipment, September-October, 3½d. per lb., c.i.f.

**PIMENTO.**—Market has remained quiet. Spot, 7½d. per lb.; shipment, September-October, 65s. per cwt., c.i.f.

**RHUBARB.**—Supplies of Shensi are now better with spot values from 4s. 4d. to 4s. 8d. Ordinary rough round from 1s. 4½d. to 1s. 6d. per lb. Pickings, 2s. 10d. to 3s. per lb., ex store. Business has been of small account.

**RUBBER.**—Values are level on the week, business patchy, market steady. Standard ribbed smoked sheet, spot, 7½d.; September, 7½d.; October, 7½d.; November, 7½d.; December, 7½d.; January-March, 7½d.; April-June, 7½d.; July-September, 7½d. per lb.

**SAFFRON.**—Spot supplies are reported to be very limited and in strong hands. Nothing coming forward and no offers from the source. Spot prices are from 60s. to 65s. and upwards with holders doling out their supplies sparingly to their customers.

**SANDRAC.**—Supplies are firmly held on spot following fair sales and prices are now mentioned up to 110s. per cwt.

**SARSAPARILLA.**—Rather quieter this week, market steady: spot, Jamaican grey, 1s. 2d. to 1s. 3d.; native, mixed colours, 10d. to 11d. per lb., as to quantity, spot.

**SENNA.**—Inquiry has been moderate and restricted to smallish spot sales to consumers. Good green Tinnevely leaves are unchanged with good bold selected at 7d.; No. 1, 6d.; No. 2, 4½d.; No. 3, 3d. per lb., with inferior goods at cheaper figures. In Alexandrian there have been no further arrivals of finest quality hand-picked pods, but there is a good selection available of medium grade which are quoted from 1s. 6d. to 2s. 9d. per lb.

**SHELLAC.**—Market remains dull: spot, standard TN orange, 53s. to 58s.; fine orange, 65s. to 135s.; pure button, 65s. to 70s. per cwt. spot. For delivery, TN orange, October, 53s.; December, 53s. 6d. For arrival, TN orange, September-October, 49s. 6d. per cwt., c.i.f.

**SQUILL.**—The very few lots available on spot and fully held at 35s. per cwt.

**SIRAMONIUM.**—The spot price for good green leaves is 40s. per cwt.

**TONKA BEANS.**—Not much inquiry on spot with fair frosted Para beans at 4s. 3d.; shipment, new crop, 2s. 10½d. per lb. c.i.f.

**TRAGACANTH.**—Inquiry for the grades ranging from £20 to £36 per cwt. continues with shortage now acute. In other directions the market has been quiet and is quoted unchanged.

**VALERIAN ROOT.**—Spot price for small parcels, 40s. per cwt.

**WAX.**—BEES': Average inquiry with the market steady. Calcutta, bleached, spot, 135s.; shipment, November, firmer, 126s., c.i.f. Abyssinian, spot, 120s.; in bond, 108s.; shipment, 107s. c.i.f.; Benguella, spot, 120s.; shipment, firmer, 109s. 6d., c.i.f. Conakry, no spot available; shipment, 118s. 6d. per cwt., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, steady at 108s. 6d. per cwt., c.i.f. CARNAUBA.—The market is steady, supplies limited. Fatty grey, spot, 165s.; afloat, firmer at 162s. 6d.; shipment, September-October, 152s. 6d., c.i.f. Chalky grey, spot, firmer, 165s.; shipment, September-October, 152s. 6d., c.i.f. Primeira, spot, good quality, 215s.; f.a.q., 205s.; afloat, 205s.; shipment, July-August, 196s., c.i.f. Mediana, spot, 205s.; shipment, 192s. 6d. per cwt., c.i.f.

### Essential Oils, etc.

RATHER more business than is usual at this time of year is reported. Bergamot and other Sicilian oils are steady but quiet on spot. Cananga is easier forward. Citronellas are a shade steadier. Seychelles patchouli is wanted but difficult to obtain. Japanese peppermint selling well at improving figures. Spanish oils running short and firm on spot.

**ALMOND.**—There is an acute shortage of the expressed oil on spot, and it is difficult to get offers from France on account of stoppage of the raw material from Spain. It is doubtful if less than 3s. would now be accepted, and most holders are asking more and are conserving their stocks for their customers. French, bitter (essential), 6s. 3d. per lb.



**ANISE (STAR).**—There are still no offers for shipment, and the news on hand is not hopeful for the near future. Supplies on spot are very limited, and mostly consist of tins which are offering firmly at about 5s. 4d. per lb.

**BAY.**—Market has been dull and is about unchanged: 49 to 50 per cent., 4s. 9d. to 4s. 10d.; 59 to 60 per cent., 5s. to 5s. 1½d. per lb., as to quantity.

**BERGAMOT.**—In London the stocks of good quality oil seem to be limited, but the demand is not of much consequence. Most holders are looking for something like 9s. 6d. per lb. We understand that a cheaper oil has been on offer in the provinces. The Consortium shipment price has been fixed at 10s. per lb., c.i.f., with no business possible for this market. Editorial comment on p. 250.

**BOIS DE ROSE.**—But very little business moving in this product: Brazilian, spot, 5s. to 5s. 3d. per lb.; shipment, 4s. 10d., c.i.f.

**CAJUPUT.**—Only small orders recorded: B.P., 1s. 10d. to 2s. 2d. per lb., as to quantity.

**CANANGA.**—Some surprisingly cheap shipment offers have been received from Holland, making the market rather easier in the region of 7s. 3d., c.i.f. Spot in dull and irregular.

**CAMPHOR.**—Chinese white, on spot, is available at 105s. per cwt. Japanese, white, 90s. per cwt., both duty paid, ex wharf.

**CARAWAY.**—A limited inquiry continues: Dutch, rectified, 9s. to 9s. 1½d.; crude, 8s. 6d. to 8s. 9d. per lb., landed and duty paid.

**CASSIA.**—Market is dull: spot, good quality oil, 3s. 1d. to 3s. 2d.; shipment, about 2s. 6d. for drums and 2s. 9d. per lb., c.i.f., for leads.

**CEDAR LEAF.**—Spot, 5s. 6d. to 5s. 9d. per lb.; quiet.

**CEDARWOOD.**—The demand is quiet: African, in drums, 1s.; smaller packages, up to 1s. 3½d. per lb.; American, in drums, 1s. 1½d.; smaller packages, up to 1s. 4d. per lb.

**CINNAMON LEAF.**—Spot quotations for Ceylon are rather easier in the region of 2s. 10d. per lb.; shipment is dull and quoted at 2s. 5½d. per lb., c.i.f.

**CITRONELLA.**—Reports indicate slightly better conditions in the Ceylon and Java products; business for this market quiet: Ceylon, spot, drums, 1s. to 1s. 1d.; smaller parcels, up to 1s. 4½d.; shipment, drums, 8½d. to 9d. per lb., c.i.f. Java, spot, drums, 1s. 3d.; smaller parcels, 1s. 4d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

**CLOVE.**—Dealers' prices for the Madagascar oil are fully steady: Madagascar, spot, drums, 3s. 4d. to 3s. 5d.; smaller packings, up to 3s. 8d. per lb.; shipment, very few offers and firm at 2s. 11d. per lb., c.i.f. English oil is fully steady at about 4s. 6d. per lb.

**EUCALYPTUS.**—Prices are firm here and shipment business is difficult to book before October despatch: Australian, 70 to 75 per cent., 1s. 3d.; 80 to 85 per cent., 1s. 4d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., about 1s. 4d. per lb., ex store.

**GRAPE-FRUIT.**—Most of the South African oil has been cleared on spot, with the value now nominal at 14s. 6d. per lb. Florida oil is available on spot.

**HO (SHIU).**—Average small spot business, with prices ranging from 1s. 6d. to 1s. 9d. per lb., as to quality and quantity.

**JUNIPER BERRY.**—Spot, from 2s. 10d. to 3s. per lb., as to quantity.

**LAVENDER.**—Recent advices of values being mentioned for new crop oil of really good quality of about 38 to 40 per cent., are up to 24s. per lb., landed. There are, however, offers of oil at less than this figure.

**LEMON.**—The chief demand seems to have been for the cold-pressed Californian oil, supplies of which are very limited, with the price at present at 6s. 3d. per lb., if available. Spot stocks of Sicilian hand-pressed have not received much call, with holders looking for about 8s. to 8s. 9d. per lb. The source quotations this week average 6s. 6d. per lb., c.i.f.

**LEMONGRASS.**—Market has been dull. Spot, 1s. 9d. to 2s.; shipment, about 1s. 6d. per lb., c.i.f.

**MANDARIN.**—The source is quoting at about 20s. 6d., c.i.f., but no business is possible. Anything in the shape of genuine oil on spot would be worth up to 30s. per lb.

**NUTMEG.**—Spot supplies of the American oil are available at about 5s. 4d. to 5s. 6d. per lb., as to quantity.

**ORANGE.**—Spot business seems to have been of no great consequence, but holders of French Guinea oil are hesitant about accepting 3s. for drums with most offers 3s. 1½d. to 3s. 3d. and up to 3s. 6d. for smalls. The Sicilian oil is nominal, spot and forward. Californian oil is steady: one case, 4s.; two or more cases, 3s. 10d.; small drums, 3s. 9d.; large drums, 3s. 8½d. per lb.

**PALMAROSA.**—Business has been slow. Spot, 5s. 10d. to 6s. per lb.; shipment, 5s. 6d. per lb., c.i.f.

**PATCHOULI.**—It is now difficult to locate Seychelles oil on spot and no offers are being made from the source. The Singapore oil is firm with a fair demand for re-export; quoted at 16s. 3d. to 16s. 6d. per lb.

**PEPPERMINT.**—A good demand for Japanese is reported on spot, with the value 6s. 1½d. to 6s. 3d. Japanese shippers' prices are dearer on reports of poor crop with August-September 6s. 3d. and re-sellers at 6s. 1d.; shippers offer October-December at 6s. with re-sellers at 5s. 10½d. per lb. Business done at 5s. 8d. for October-December and buyers. CHINESE oil has been moving quietly and current quotations are at 6s. for spot and about 5s. 9d., c.i.f., for afloat oil. The AMERICAN natural oil tends firmer, due to a report from the source that the crop is about half that of last year. Quoted at 2 dollars 50/70 cents per lb. in drums, c.i.f.

**PETITGRAIN.**—Market has remained dull. Spot, in cases, about 3s. 6d. up to 3s. 10d. per lb. for smaller packages; shipment, in cases, 3s. 3d. per lb., c.i.f.

**ROSEMARY.**—This market is firm with spot supplies limited and firmly held for about 3s. per lb. No shipment offers or news from the source.

**SANDALWOOD.**—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; practically no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, business done at 7s. 3d. per lb. Australian oil continues steady: 5 cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

**SASSAFRAS.**—Dealers are quoting spot at about 3s. 7d. to 3s. 9d. per lb., as to quantity, for natural oil. Artificial oil at cheaper prices.

**SEARMINT.**—Firm conditions are reported from the source with the price now at 8s. 9d. to 9s. c.i.f. Spot offers vary but most holders have advanced their figures to 9s. 6d. to 10s. per lb. Both spot and forward quotations are irregular at the moment, but there is definitely a sharply firmer tone.

**SPIKE.**—A very firm market with spot supplies running low and now quoted from 5s. 3d. to 5s. 4½d. per lb. No shipment offers and no news as to crop, if any, from the source.

**THYME.**—Spanish oils are firm and dear. Red, 4s. 6d. to 5s. 6d. White, 3s. to 3s. 6d. per lb., as to quality and quantity. Some Palestine oil, 75 per cent., is quoted at about 5s. 4½d. to 5s. 6d. per lb., spot.

**WETIVERT.**—Dealers are offering small parcels of Bourbon on spot at about 37s. 6d. per lb.

**WORMSEED.**—Market has remained quiet. U.S.P. oil, spot, 9s. 3d.; shipment, about 8s. 10½d. per lb., c.i.f.

### Sudan Gum Acacia Exports

BOXALL & Co. report shipments in June 1936 totalled 1,609 tons, compared with 1,518 tons in June 1935. Shipments for January-June 1936 totalled 12,454 tons, compared with 11,096 tons during the corresponding six months of 1935. The chief destinations were as follows:—

Destination	1935			1936		
	Jan.-May	June	Total	Jan.-May	June	Total
Great Britain ...	2,023	618	2,641	2,576	330	2,906
U.S.A. ...	1,844	128	1,972	1,552	344	1,896
France ...	1,105	163	1,268	2,216	185	2,401
Germany ...	790	117	907	1,345	212	1,557
Italy ...	605	122	727	14	30	44
Belgium ...	631	51	682	660	147	807
Japan ...	915	39	945	536	8	544
Holland ...	288	44	332	438	58	496
Spain ...	175	16	191	100	16	116
Sweden ...	191	37	228	194	49	243
Norway ...	21	11	32	24	1	25
Australia ...	303	61	364	293	45	338
New Zealand ...	27	10	37	28	3	31
China ...	88	10	98	126	23	149
Canada ...	82	—	82	117	32	149
British India ...	11	—	11	26	—	26
Denmark ...	40	—	40	74	29	103
Finland ...	58	2	60	49	15	64
Poland ...	27	—	27	28	8	36
Rumania ...	9	5	14	55	7	62
Turkey ...	16	—	16	28	—	28
Greece ...	27	21	48	51	22	73
Egypt ...	92	20	112	42	15	57
Argentina ...	66	5	71	29	—	29
Brazil ...	47	—	47	79	5	84

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
June, 1935 ... tons	1,392	13	113	1,518
June, 1936 ... tons	1,503	46	60	1,609
January-June, 1935 ... tons	10,251	58	787	11,096
January-June, 1936 ... tons	11,682	75	697	12,454



# Commercial Notes

U.S.A. LIME OIL IMPORTS.—Arrivals during 1935 were as follows:—

	lb.	\$		lb.	\$
France ... ..	434	1,434	Barbados ... ..	3	20
Germany ... ..	126	687	Jamaica ... ..	2,750	12,529
Netherlands ... ..	1,502	33,326	Trinidad and Tobago	11,478	59,875
United Kingdom ... ..	11,048	57,620	Other British W.		
Canada ... ..	1,521	14,762	Indies ... ..	11,015	63,842
Mexico ... ..	23,875	53,160	British Guiana	222	1,302
			Total ... ..	63,974	298,557

CEYLON AND JAVA CITRONELLA OIL.—The following table shows the exports of the two oils for the years 1926 to 1935:—

	Ceylon	Java	Total
	(in 1,000 kgs. net)		
1926 ... ..	650	1,181	1,832
1927 ... ..	617	1,313	1,930
1928 ... ..	545	1,140	1,685
1929 ... ..	540	866	1,406
1930 ... ..	551	815	1,366
1931 ... ..	546	886	1,432
1932 ... ..	581	991	1,571
1933 ... ..	662	1,522	2,184
1934 ... ..	693	1,766	2,459
1935 ... ..	636	1,657	2,293

The distribution of Ceylon citronella oil during the years 1931 to 1935 was as follows (in 1,000 kilos.):—

	1931	1932	1933	1934	1935
Europe ... ..	262	241	235	286	250
America ... ..	204	274	342	308	277
Asia ... ..	40	33	39	40	44
Australia ... ..	34	30	33	42	52
Africa ... ..	7	3	11	16	13
Destination unknown	—	—	1	1	—
Total ... ..	546	580	662	693	636

U.S.A. AROMATIC CHEMICALS.—Production of synthetic aromatic chemicals of coal-tar origin in 1935 totalled 4,364,000 lb., an increase of 4.7 per cent. over the 1934 production of 4,168,000 lb. Flavours registered an increase, while perfume materials on the whole showed a decline from the preceding year. Outstanding items showing an increase were:—

	1934	1935
	lbs.	lbs.
Methyl salicylate ... ..	1,268,989	1,544,000
Vanillin ... ..	232,920	235,000
Acetophenone ... ..	6,686	7,232
Benzyl alcohol ... ..	—	114,000
Diethyl phthalate ... ..	879,474	934,000
Musk xylol ... ..	34,392	68,000
Phenylethyl alcohol ... ..	126,144	135,000

JAPANESE MENTHOL AND PEPPERMINT OIL EXPORTS.—Exports of menthol crystal, menthol cane and peppermint oil from Japan decreased during the first quarter of 1936 compared with a similar period of 1935 as follows:—

	1935		1936	
	Quantity	Value	Quantity	Value
		Yen		Yen
Menthol crystal (kin) ... ..	157,762	1,681,765	110,597	1,190,098
Menthol cane (doz.) ... ..	25,464	29,398	23,785	21,892
Peppermint oil (kin) ... ..	130,000	550,345	100,100	500,193

(1 kin equals 1.32 pounds).

I.F.S. CHEMICAL IMPORTS.—Six months' imports of medicines and medicinal preparations into the Free State to June totalled £134,380, as compared with £134,419 last year. The June figure alone was £20,203, against £17,936. Purchases of perfumery, cosmetics, etc., from abroad, notwithstanding the home production, for the six months, reached £14,209, as compared with £16,420. Imports of druggists' ware for the same period totalled £17,386, against £20,406.

GAMBIA BEES-WAX EXPORTS.—The United Kingdom receives the entire shipments of bees-wax from the colony, which for the past five years were as follows:—

Year	lb.	£	Year	lb.	£
1931 ... ..	11,604	£344	1934 ... ..	59,826	£1,404
1932 ... ..	41,246	1,254	1935 ... ..	63,989	1,541
1933 ... ..	11,095	272			

BRAZILIAN MARKETS FOR INSECTICIDES.—The use in Brazil of agricultural insecticides and fungicides is increasing as a result of educational efforts of the agricultural co-operatives. The most troublesome pest is the leaf-cutting ant, which is said to reduce Brazilian crop about 30 per cent. There are a number of producers of insecticides and fungicides, mostly located in Sao Paulo, using sulphur, arsenic or petroleum as the base of their manufactures. Low purchasing power has limited trade in high-priced imported products. The Brazilian Department of Agriculture recommends arsenicals for destruction of the curuquere worm, the chief cotton pest. Cotton seed fumigators employ carbon bisulphide or hydrocyanic acid gas. A small market exists for citrus fumigants.

JAPANESE CAMPHOR OIL EXPORTS.—Exports from Japan for the first quarter of 1936 amounted to 122,900 kin, valued at 92,497 yen, as against 265,000 kin, valued at 119,850 yen, for a similar period of 1935. Exports for the first quarter of 1934 amounted to 293,000 kin, valued at 113,103 yen (1 kin equals 1.32 lb.).

U.S.A. COD-LIVER OIL IMPORTS.—Arrivals for the years 1926 to 1935 were as follows:—

Year	Gallons	Dollars	Year	Gallons	Dollars
1926 ... ..	1,921,422	1,615,967	1931 ... ..	1,737,207	1,311,831
1927 ... ..	2,375,297	2,231,032	1932 ... ..	1,247,998	804,375
1928 ... ..	2,571,936	2,522,672	1933 ... ..	3,432,569	1,711,072
1929 ... ..	2,866,728	2,448,162	1934 ... ..	3,470,259	2,190,985
1930 ... ..	2,894,967	2,229,225	1935 ... ..	4,607,093	2,975,298

TINNEVELLY SENNA EXPORTS.—Exports from the Madras Presidency, for the years 1934-35 and 1935-36, ending March 31, were as follows:—

Destination	1934-1935		1935-1936	
	Cwt.	Rupees	Cwt.	Rupees
United States ... ..	11,712	253,651	13,110	252,651
Germany ... ..	15,659	239,771	23,803	3,2184
British Isles ... ..	6,725	138,098	6,567	130,658
France ... ..	6,592	81,398	9,241	113,089
Belgium ... ..	3,793	39,070	2,801	31,272
Italy ... ..	2,420	32,894	1,727	26,182
Japan ... ..	461	5,593	1,666	17,550
Spain ... ..	486	4,480	566	5,575
China ... ..	717	7,262	1,605	14,877
Other Countries... ..	1,652	26,206	4,582	65,965
Total ... ..	50,217	819,423	65,734	990,003

## Trade with Russia

An agreement was entered into recently between the Export Credits Guarantee Department and the Soviet Trade Representative under which the Department will give guarantees in connexion with orders which the Soviet Government Organisations are to place in this country up to a total of £10,000,000. These orders are to be placed by September 30, 1937, that is, within a period of approximately twelve months. The Soviet Trade Representative has given a formal assurance that it is the intention of the Soviet Government to place orders up to the full limit of £10,000,000. The Export Credits Guarantee Department has agreed to make arrangements which will enable the Soviet Government to pay cash for all these orders. From time to time, the Soviet Government will issue notes carrying interest at 5½ per cent. per annum and payable in five years. The principal and interest of these notes will be guaranteed by the Export Credits Guarantee Department. The notes will then be sold and in this way money will be provided which will be paid into a special account of the Soviet Trade Representative in a British bank, to be used solely for the purpose of paying for the goods ordered under this Agreement. One point of special interest to British manufacturers should be mentioned. At the present time the Buying Organisations of the Soviet Union normally pay for their purchases under conditions which have in certain cases given rise to difficulties. In connexion with the Agreement just concluded, arrangements have been made with a view to removing any anxieties that British exporters might feel about these methods of payment. An undertaking has been given by the Soviet Trade Representative, that in all cases, provided that the shipping documents are in order, payment will be made within thirty days, and that in the event of any complaint that the account has not been settled within that period, he will make payment forthwith, provided that the shipping documents are in order, irrespective of any other question which may be in dispute.



# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## Apothecaries' Assistants

SIR,—The remarks of "M.P.S. and Assistant, Society of Apothecaries," in your issue of August 22 (p. 233) fail to prove the so-called inaccuracies in my letter of August 15. He also evades the point in question. Is or is not the dispenser of the Society of Apothecaries a careful and very efficient dispenser? The poor-law institution has only changed its name, but that does not alter the essential facts in my statement. Moreover, it is quite outside the discussion to say that a Fellow of the Royal College undertakes not to dispense medicines. That point did not arise, and cannot affect the fact that all members of the medical profession enjoy equal rights in law in connexion with their profession. Finally, a dispenser can contravene the Dangerous Drugs Acts in other ways than by not keeping proper records.—Yours faithfully,

GRAHAM BOTT,

Secretary, the Association of Certificated Dispensers.  
London, S.W.

SIR,—Whenever the reservation of dispensing for pharmacy is secured, I fail to see why it should to any serious extent affect either the present status or the economic dependence of the Apothecaries' Hall assistant. Indeed, on the contrary, it might even improve it. The only economic change would be that the demand for his services which he now finds among the doctors should then be found with the pharmacist. As to his status, the recognition you refer to as given by the Pharmaceutical Society in the post-war period might conceivably receive some legislative confirmation in any Bill for the reservation of dispensing. As to the respective values of the two qualifications, a certificated dispenser is one type of service and the registered pharmacist is another, and each may be complementary to the other; but it would be difficult to argue for the inclusion of a certificated dispenser on the Register of pharmacists and to quote the Dentists Act in support. In the case of the dentists the unqualified practised the entire art of dentistry, which is not quite on a par with the pharmaceutical position. . . .—Yours faithfully,

FRANK E. S. CLARKE,

Secretary, Newport and Monmouth Branch of  
the Pharmaceutical Society.

Newport.

[Our correspondent may have overlooked the fact that Section 4 (b) of the Poisons and Pharmacy Act, 1908, has not been repealed.—EDITOR.]

SIR,—Your editorial article "Apothecaries' Assistants Pother" (*C. & D.*, August 22, p. 225) is, to my mind, a wise expression of opinion, and should cause the impetuous among our reformers to think well before clamouring after what may well prove a phantom, dispensing by chemists only. You are to be congratulated on pointing out that the apothecaries' assistants are entitled to consideration in making such a claim, and this is a matter which many in our ranks are apt to forget. A further dilution of the Register of Chemists and Druggists would certainly be fraught with disaster to the business of pharmacists, and the prospects of improved monetary and other conditions might well be set back for another fifty years. The experience of indignities heaped upon us in the Pharmacy and Poisons Act should teach us to "ca-canny" lest a greater evil overtake us. Fifty years ago pharmacy might have achieved its just recognition, had our then leaders adopted the attitude "I stand upon my native heath." To-day our only hope is in "progress by negotiation."—Yours, etc.,

THE THISTLE (26/8).

SIR,—Your editorial article on the controversy arising out of the resolution at the Bournemouth Conference with regard to the training of Apothecaries' Hall assistants is interesting. First, it is a very debatable point as to who are the direct and legitimate descendants of the old apothecaries; one hears it argued that the doctors, the pharmacists and the present Apothecaries' Hall dispensers are. The doctors may be, but I think the pharmacist most certainly is, for the old apothecary kept open shop and was more than a mere dispenser. That being so, there appears to my mind to be no fear of the same position arising as arose over the Dentists Act of 1921,

when unqualified and qualified were doing exactly the same work and in precisely the same kind of premises; for it is only necessary, should an Act of Parliament be necessary to secure the whole of the dispensing for the pharmacist, for a section of the Act to provide for a "dispensing assistant" or assistant dispenser, who would be employed by a pharmacist and under his direction and supervision. To suppose that Apothecaries' Hall dispensers should be granted facilities and benefits for which they have not had the training would surely not be in the best interest nor be reasonably expected. The advice given by the registrar of the Society of Apothecaries to seek the qualifications of the Pharmaceutical Society in order to make progress is proof of the official opinion held on these points, and is a wise and prudent remark.—Yours faithfully,

DISPENSING CHEMIST (25/8).

SIR,—Two points seem to have emerged clearly from the discussion on the apothecaries' assistants' qualification. First, most of your correspondents do not question the ability of the holders of these certificates to dispense prescriptions; and second, in spite of the proof of their skill afforded by the examination, under the present condition of the law they cannot practise dispensing except under the supervision of a medical man or a pharmacist. One could wish that the Bournemouth Conference, before moving a resolution urging pharmacists not to train Apothecaries' Hall students in shops, had passed a resolution to the effect that youths (and especially young girls) without the necessary preliminary educational certificate, and with no intention of studying for any qualification, should not be trained to become unqualified assistants. There has been far too much of this in recent years, especially since the war. Would it not be better to put the pharmaceutical house in order first? If it is an important plank in the pharmaceutical platform to reserve dispensing for pharmacists, is it intended that the actual work should be done by pharmacists only, or is the old formula "under supervision" to be retained? If so, we can hardly complain if doctors and institutions claim the same right.—Faithfully yours,

ONE AT A TIME (24/8).

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

### Provision Against Illness

Having just experienced the benefit and relief of being a shareholder in the N.P.U. Chemists' Sickness and Provident Society, I should like to declare my gratitude to my fellow-craftsmen who devised this scheme. I should like to hear from half a dozen young men or women up to aged thirty to let me point out in a brief letter the advantages of becoming a shareholder.—R. B. Hodder, *Ph.C.*, Winchester.

### Aprons in the Pharmacy

Reference to the "master" who always wore his apron (*C. & D.*, August 15, p. 169) recalls to many of us the chemists and druggists (or, as they were more familiarly called, the "droggists") of a generation and more ago. I can well remember two Ph.C.s in a Northern town. One wore a white apron under a swallow-tail coat; ludicrous though this may seem, this gentleman had a distinctly professional appearance, accentuated by his long flowing beard and gold-rimmed spectacles. Ph.C. No. 2 not only wore a white apron, which he always tied over his jacket, but also wore white sleeves over his jacket sleeves, and on his head a skull cap. I can remember several Glasgow chemists wearing white aprons, among others the late Mr. Cappell, Hillhead, and Mr. John McMillan, Great Western Road. When Mr. McMillan engaged an assistant the latter had to sign a code of establishment rules, one of which was that he must wear a clean white apron every day. Varying degrees of cleanliness in the aprons worn by the staff eventually brought about the elimination of a doubtful adornment. The living-in system was practically unknown in Scotland.—*Scotia* (18/8).



## Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*M. J. C.* (8/83).—CURD IN CALVES.—Curd or milk dyspepsia in calves should be prevented by mixing either some lime water or some sodium citrate in the milk fed to calves; also the milk should not be from a stale cow but one that is the mother of the calf or one that calved about the same time. The calf should be fed at frequent intervals with the milk at blood heat. Sometimes if curd is suspected, essence of rennet is given with some dilute hydrochloric acid. The following mixtures would be suitable for treatment:—

I			
Liq. ammon. arom.	...	...	℥ij.
Sod. citrat.	...	...	℥iv.
Liq. cardam. co.	...	...	℥i.
Tinct. zingib. fort.	...	...	℥ij.
Aq. carui	...	ad	℥viiij.
II			
Liq. ammon. arom.	...	...	℥ij.
Tinct. capsici	...	...	℥ij.
Sp. menth. pip.	...	...	℥ij.
Sp. chlorof.	...	...	℥ss.
Aq. anethi	...	ad	℥viiij.
℥j. vel ℥ij. t.d.s.	c.	℥vj. lactis.	

Should there be any diarrhoea, give first an aperient and add some tinct. opii. to either prescription.

*C. K. W.* (18/87).—CATTLE DISHORNED.—The chemical usually supplied for dishorning cattle is either a strong solution or a stick of caustic potash. This is applied to the bud of the horn once every second day for a week, when a scab will form over the bud and then drop off, carrying with it the cells which would have formed the horn. Little or no pain is occasioned, but it should be pointed out that the operation must be carried out before the animal is one month old, otherwise under the Animals Anaesthetics Act it is necessary to administer a general anaesthetic before the dishorning is commenced. When it is desired to remove the tips of the horns from cattle—as may be necessary when they are in a confined space for fattening, owing to the risk of their maiming one another—a special instrument known as the horn guillotine is used. When a general anaesthetic is necessary it is advisable that it should be administered by a veterinary surgeon.

*W. S. L.* (18/88).—SPIRIT REGULATIONS.—A synopsis of the spirit laws and regulations was published in *The Chemist and Druggist Diary*, 1936, commencing on page 301.

*R. B.* (21/88).—BALSAM AS A DUTIABLE TITLE.—The words "balm" and "balsam" were stated in 1907 to indicate a "curative or remedial agent, possessing softening and soothing properties," so that titles like "lung balsam" render the preparations liable to medicine-stamp duty. On the other hand, titles such as "balsam of horehound and linseed" do not in themselves create liability, as they do not include the name of a part of the body.

*A. S.* (21/88).—WIFE AS AN EMPLOYEE.—A wife in the employ of her husband does not come within the scope of either National Health or Unemployment insurance.

*J. G.* (21/88).—ETCHING GLASS.—The preparation you have in mind for stamping tumblers is an etching cream. This consists of equal parts of ammonium fluoride and barium sulphate made into a cream with hydrofluoric acid. This is applied to the glass by means of a rubber stamp, allowed to remain for twelve hours, then washed off.

*C. C.* (21/88).—PLANT CAUSING ILLNESS IN CATTLE.—The plant is that of the bog myrtle or sweet gale. This is a bushy resinous, aromatic shrub growing in boggy land in Britain and European countries. The fragrant leaves are astringent and tonic, and are used as a rustic medicine in the form of tea. The leafy portion of the plant, on account of its aroma and bitter taste, has been employed as a substitute for hops in brewing beer. The plant is not known to have any direct poisonous action, but it is evidently not suitable for food for cattle, being too astringent and indigestible. The only natural remedy is to keep the cattle away from the land growing the bog myrtle, or eradicate the plant itself as far as possible. The cattle which are suffering should be given a purge as an antidote to the astringent action of the plant.

*W. B.* (14/88).—SHAMPOO POWDER FOR DOG.—A similar product could be made by mixing two parts of soap powder with one part of borax. There may have been some slight anti-septic present originally, but we cannot trace any now.

*P. B.* (10/88).—SICKNESS IN DOGS.—The capsule used to prevent sickness during travelling by rail or sea contains a white crystalline powder. This appears to be chloretone (chlorbutol), with apparently no additional ingredient.

*R. J. R.* (20/88).—SUNBURN LOTION.—"Suntan and Sun-bronze" was the subject of an article in the *C. & D. Annual Special Issue* (June 27, p. 726). An additional formula to those given there is as follows:—

Tannic acid	...	...	...	2 parts
Glycerin	...	...	...	½ part
Tincture of quillaia	...	...	...	1 part
Industrial spirit	...	...	...	to 100 parts

This could be perfumed as desired, one of the popular odours being that of bay rum.

## Poisons Queries

Subscribers are asked before sending us inquiries to consult the *C. & D. "Poisons Guide,"* also the following articles which have appeared in the *C. & D.*: How to Supply Poisons (January 18, p. 69); Labelling of Poisons (March 7, pp. 284, 285); Wholesale Dealing in Poisons (April 25, p. 493).

*J. R.* (11/84).—The arsenic must be distinctively coloured by the addition of a dye soluble in water. The Poisons Colouring Rules, which were published in the *C. & D.*, May 9, do not mention any particular colour.

*J. S.* (18/84).—Alkaloids of jaborandi are Part I poisons. Preparations containing 0.5 per cent. and over are in Schedule I, but total exemption is allowed (under the Third Schedule) of substances containing less than 0.025 per cent. of alkaloids. Preparations containing jaborandi alkaloids between these quantities are still Part I poisons, but are "un-scheduled." Thus they are only subject to labelling requirements, but can only be sold by authorised sellers of poisons.

*R. & T.* (21/88).—Under Rule 19 any article specified in the Seventh Schedule must, instead of being labelled with the word "Poison," be labelled with the words specified as applying to that article. In the case of your preparation, the words are "Caution. It is dangerous to exceed the stated dose." Thus, you will see it is not correct, or rather it will not be correct after January 1, to use the poison slip enclosed with your letter. The amount of nux vomica must be stated, and the statutory particulars must be either within a frame or on a separate label. We think it would help you to design your label if you studied the article published in *THE CHEMIST AND DRUGGIST*, July 25, p. 105.

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," August 28, 1886

### Synthetic Quinine

The startling announcement which was made at the beginning of this week that a medical man had succeeded in producing quinine artificially has naturally given rise to much uneasiness in the drug market. Such a discovery would several years ago have been hailed with enthusiasm, but just at present the merchants are desirous that chemists who work at the synthesis of quinine should take a very long holiday. At the London docks there lies an overwhelming stock of cinchona bark; in our colonies immense sums of money have been invested in cinchona plantations, and quinine is fast becoming a byword in Mincing Lane for whatsoever is uncertain and unprofitable. We have cried long for cheap quinine; now we have it, and many wish it to be dearer, and watch week after week for the smallest sign of an advance, as though the present low price were a calamity. The report which we publish of an interview . . . is reassuring to speculators, and we confidently anticipate that the future of natural quinine will be long enough to enable those who are interested in it to put their houses in order for the arrival of the artificial alkaloid.



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Glasgow New Apothecaries Co.	Thompson, John, Ltd.
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7th August, 1936.

Messrs. Scott & Turner Ltd.,  
Andrews House,  
Newcastle-on-Tyne, 2.

Dear Sirs,

I desire to apologise for having inadvertently sold Andrews Liver Salt at prices under the minimum prices as fixed by you for retail sales, and also for having broken the Agreement which I made with you on the 15th April 1936.

The prices at which I sold Andrews Liver Salt were held by the Court to be a breach of the Agreement between us and the Court accordingly granted an injunction against me.

You are at liberty to make such use as you think fit of this letter.

Yours faithfully,

*A. M. Elliott.*

## WARNING

The Proprietors of Andrews Liver Salt publish this letter of apology to encourage the maintenance of fair trading and to indicate their determination to take what steps are necessary, in the interests of their customers, to support the fixed selling prices and to preserve trade profits.

Andrews Liver Salt is supplied for Retail Sale strictly on the understanding that the following prices shall be maintained.

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**8 oz. TIN • 1/4**

## INJUNCTION

Recently, in the Court of Chancery, an injunction and costs were granted against Mr. A. M. Elliott of Harlesden, whose subsequent apology appears above, for failing to maintain the Retail Selling prices for Andrews Liver Salt, fixed in the interest and for the benefit of the Wholesale and Retail trades themselves.

*Manufacturers:*

**SCOTT & TURNER LTD., Andrews House, Newcastle-on-Tyne, 2.**



**" CLARKES "**

Brand

World-famed Blood-purifying Medicine

**" BLOOD MIXTURE "**

Registered Trade Mark

UNSTAMPED, FOR SALE BY CHEMISTS ONLY

**P.A.T.A. PRICES****" CLARKES " Brand BLOOD MIXTURE**  
(Liquid and Tablets)Retail 3/-. 3 doz. lots £4 - 4 - 0 less 3 $\frac{3}{4}$ % one month  
12 " " £16-16-0 " 8 $\frac{3}{4}$ % " "

CARRIAGE PAID

PACKING FREE

**ASSORTED ORDERS**

	Retail	Per Doz.
<b>" CLARKES " Brand</b>		
<b>" BLOOD MIXTURE " (Liquid)</b>	1/9	16/4
" " " "	3/-	28/-
" " " "	12/-	112/-
<b>" BLOOD MIXTURE " (Tablets)</b>	1/9	16/4
" " " "	3/-	28/-
" " " "	5/-	46/8
<b>SKIN LOTION</b> ... ..	1/3	11/8
<b>SALVE</b> ... ..	1/3	11/8
" ... ..	3/-	28/-
" ... ..	5/-	46/8
<b>APERIENT PILLS</b> ... ..	1/3	11/8
" ... ..	3/-	28/-
<b>MEDICATED SOAP</b>		Doz. Tablets
Box 3 Tablets ... ..	2/6	7/10
Single Tablets ... ..	1/-	

Orders may be assorted as desired at above rates provided they reach minimum values, as follows:—

£4 - 4 - 0 less 3 $\frac{3}{4}$ % one month£16 - 16 - 0 " 8 $\frac{3}{4}$ % " "

CARRIAGE PAID PACKING FREE

ORDERS may be sent direct or through the usual  
wholesale houses**The Lincoln & Midland Counties Drug**  
COMPANY, LIMITED

PARK STREET, LINCOLN

Telegrams: "Lindum, Lincoln" Telephone: Lincoln 55

**EDWENIL**THE POLYVALENT  
ANTIBACTERIAL AGENT

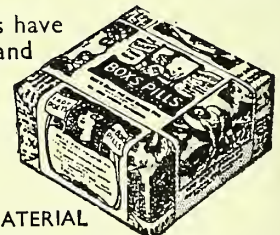
This product is consistently advertised to the Medical Profession. Thousands of doctors use it regularly and its reputation as an invaluable therapeutic measure is steadily becoming more widely known. Every Pharmacy should carry a stock of Edwenil—it is obtainable through the usual wholesalers. Literature describing it will gladly be sent to any Pharmacist.

E. H. SPICER & Co., Ltd.  
WATFORD HERTS.

**EVERYWHERE**  
—**BOX'S**  
Indigestion  
**PILLS**  
**ARE IN DEMAND!**

P.A.T.A. List  
1/3, 3/-, 5/-, 22/-  
Retail Prices

For 40 years Box's Pills have been curing Indigestion and building sales—today Box's Pills are selling better than ever.

**FREE**

WINDOW DISPLAY MATERIAL

WILL BRING THE BUSINESS IN  
Eye-catching display stands and showcards in full colour are available "by return" from the manufacturer. Supplies of Pills through your usual wholesaler or direct.

**W. H. BOX**

161 KING ST., PLYMOUTH



# PURE MALT EXTRACT

WITH FINEST

## NON FREEZING COD LIVER OIL

THAT DOES NOT SEPARATE NOR CRYSTALLISE

*Conforms to the Standards of the B.P.*

**IN ASSORTED FLAVOURS**



*WIDE RANGE OF ATTRACTIVE LABELS—With Own Name and Address*

Also **MALT EXTRACT WITH PARRISH'S FOOD**  
**MALT EXTRACT WITH HALIBUT LIVER OIL, etc.**

WE ALSO MANUFACTURE FOR THE SPECIAL REQUIREMENTS  
OF HOSPITALS AND FOR EXPORT  
ENQUIRIES INVITED FOR BULK AND PACKED



FROM THE ACTUAL MAKERS



# THE BRITISH DIAMALT COMPANY

(PROPRIETORS: H. A. & D. TAYLOR, LTD.)

**SAWBRIDGEWORTH • HERTS**

ESTABLISHED 1793.

## ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of  
140 years' standing.

Does not contain any Scheduled Poison.

**ROBERT BARKER & SON, LTD.,**  
13 WESLEY ST., C. on M., MANCHESTER.

# PERRY'S POWDERS



**GIVE A GOOD RETURN**

NICE TO HANDLE—EASY TO SELL

Wholesale from **PERRY'S POWDERS, Ltd., LEEDS**

*Pharmaceutical*

# CASTOR

# PREMIER

# OIL

Tasteless  
Water-White

*Made in England by*

**THE PREMIER OIL  
EXTRACTING MILLS**

HULL

Ltd.

Telegrams: "Premier, Hull"

Telephone: 15191 (8 lines)



**PARAFFINUM  
LIQUIDUM B.P.  
HIGH VISCOSITY**

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**TECHNICAL WHITE  
AND  
HALFWHITE OILS**

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**WHITE PETROLEUM  
JELLY**

PHARMACEUTICAL & TECHNICAL  
QUALITIES

**HOLROYD'S**  
**OIL & CERESINE CO. LTD.**  
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TELEPHONE:  
ROYAL 5126-7

TELEGRAMS:  
ERRIKOLROY  
FEN, LONDON

# SOL-VO

**REDUCTION  
IN PRICES**



3 Doz. @ 5/9 Doz.

6 Doz. @ 5/6 Doz.

1 Gross @ 5/- Doz.

CARRIAGE PAID  
NET

**FORD, SHAPLAND & CO. Ltd.**  
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LONDON, W.C.1  
Telephone: Holborn 4695

## *Southalls* SANTOWELS

The "ORIGINAL" and most popular.  
The "CELTEX" soluble, easily disposed of.  
The "K" made entirely of absorbent  
cotton wool, with very soft cover.  
The "COMPRESSED" for travelling. A  
very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

COMPOSITION STOPPERS  
BAKELITE MOULDINGS  
COMPACTE COSMETIC & ROUGE BOXES




*200 Varieties  
Any Colour.*

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.

**W. J. SHARPLIN, Ltd.**  
Middle Lane Works, Hornsey, LONDON, N.8

Telephone:  
Mountview 0952



*Attractive Shops  
Attract more Business!*

*We specialise in modernising  
Chemists' Shops, Interiors and  
Furnishings and shall be  
pleased to co-operate with  
Chemists for any kind of  
alterations or additions*



PHARMACY FITTERS FOR  
OVER A CENTURY

**PHILIP JOSEPHS & SONS LTD.**

90-92 ST. JOHN STREET, CLERKENWELL, LONDON, E.C.1

Telephone : Clerkenwell 4111/2

ESTABLISHED IN 1826

**ZEAL**

**Clinicals**

The Choice  
of Experts

BRITISH  
MADE

NO HIGHER  
IN PRICE THAN  
NONDESCRIP  
MAKES

Also Household, Bath  
and Works Thermometers,  
the best of their kind

**G. H. ZEAL LTD.**  
MORDEN RD., MERTON,  
LONDON, S.W.19  
Phone: Liberty 2283-4-5

The Poultice that  
**SIZES** up the  
situation!

**MEDILINTEX**  
BOILS  
per 6/6 packet

**A Seller  
because  
it meets  
the need!**

EVERYONE needs a poultice occasion-  
ally. And everyone will welcome  
Medilintex—the poultice dressing that retains its healing  
and drawing properties for 24 hours. Cut to convenient  
sizes and packed with waterproof cover and bandage,  
Medilintex retails at the popular price of 6d. Larger sizes  
1/- to 6/6. Show Medilintex to the next customer who  
needs a poultice dressing. You'll make an immediate sale.

Send for samples and further information

**MEDILINTEX**  
BRAND  
THE MODERN POULTICE DRESSING  
ROBINSON & SONS LTD.  
Wheat Bridge Mills, Chesterfield, & 168 Old Street, LONDON, E.C.1



# Rivista Italiana delle Essenze, dei Profumi e delle Piante officinali

EIGHTEENTH YEAR OF PUBLICATION

OFFICIAL ORGAN OF THE FENACHIMICI

Director : - - - - Dr. EMMA FENAROLI

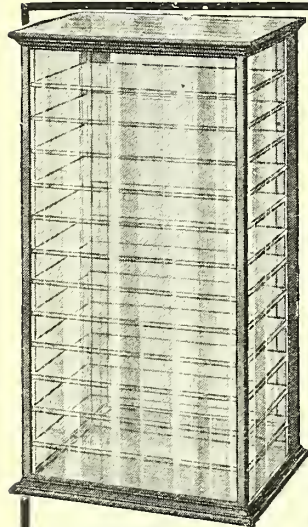
Editorial Offices : - VIA S. VINCENZO N.38 MILAN

Telephone : 31 216-C.P.850

Producers of Aromatic Substances for Perfumery—Manu-  
facturers of Articles used in the Perfumery Trade—This is  
the Periodical in which to Advertise effectively in Italy.

**MAKE USE OF ITS ADVANTAGES**

SAMPLE COPY AND TARIFF ON REQUEST



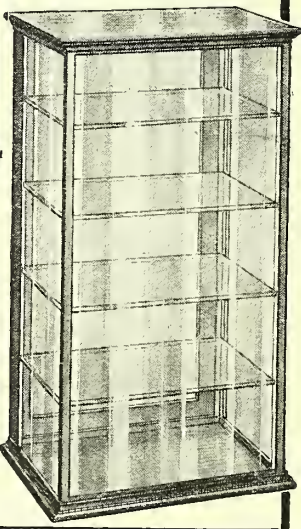
**USEFUL SHOWCASES  
FOR THE CHEMIST**

No. C.D.F. 5540

Polished Light Oak Case  
30" high x 15" wide x 12" deep  
Fitted 12 polished edge shelves  
—Hinged door at Back—Shelves  
Slide out

45/- each

Also Stocks Mahogany Finish 48/6



No. C.D.F. 5649

A similar case to No. 5640 but  
fitted 4 shelves

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Mahogany Finish 42/6

Prices Nett. Carriage Extra

Send for our List No. C.D. 1695

**DUDLEY & Co. Ltd.**

544 HOLLOWAY ROAD  
LONDON, N.7

City Showroom: 65 Fore St., E.C.

**SOUTHALLS**  
"CELTEX" TOWELS  
SOLUBLE  
**STANDARD SIZE**  
CARTONS OF  
**12 for 1/- 6 for 6<sup>d</sup>**  
SOUTHALLS (BIRMINGHAM) LTD.

WE SUPPLY  
**DECORATED TINS**  
FOR PACKING  
**OINTMENTS**  
AND OTHER PRODUCTS  
SAMPLES AND PRICES UPON REQUEST  
THE CALDICOT TIN STAMPING WORKS LTD.  
CALDICOT, Nr. CHEPSTOW, Mon.



# MONDAY is closing day for the

# PHARMAL SPECIAL BONUS OFFER

So  
act now!



Take advantage of the unique Pharmal offer before it is too late. August 31st is definitely the last day.

For an order of 3 dozen "Pharmal" Hot Water Bottles, and a promise to give them a window display for two weeks, we will send you ABSOLUTELY FREE as bonus, 3 "Pharmal" NURSERY HOT WATER BOTTLES.

The fixed retail price of the "Pharmal" is 2/11 and the Nursery Bottle 2/-. For an outlay of 72/- your return is 111/- including your 6/- bonus—OVER 50% PROFIT.

Send your order direct to us, giving the name of your usual wholesaler. We deliver direct to you, and invoice through your usual Wholesale House.

DO IT NOW—WHILE YOU THINK OF IT.

Colour range: Red, Blue, Green, Blue/Green, Jazz.

SHOWS YOU  
**50%**  
PROFIT



The "Pharmal" Nursery Bottle costs you nothing under the special offer and sells for 2/-. In attractive and novel carton.

# Pharmal

## HOT WATER BOTTLES



# BOTTLES

BRITISH MADE

OF  
QUALITY

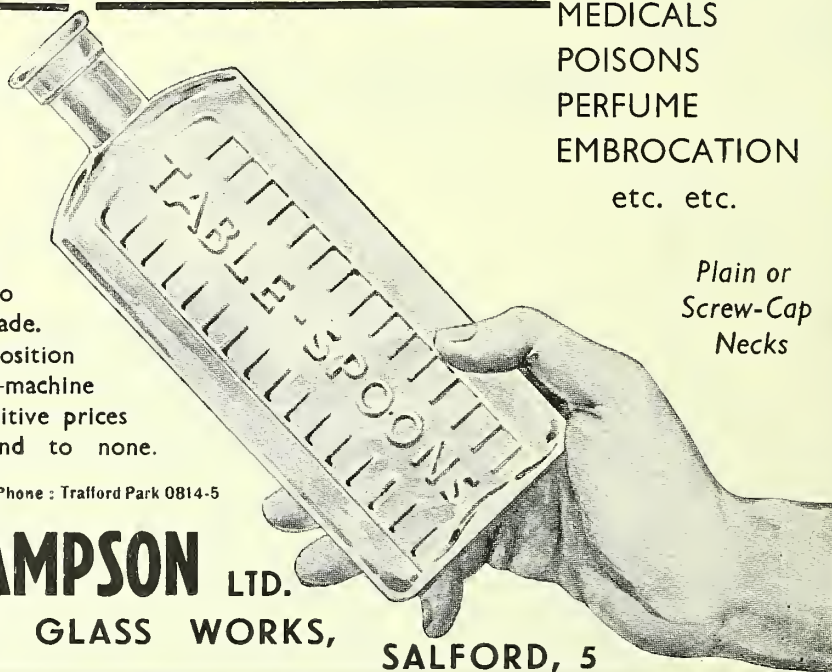
For over 80 years we have been making bottles of every description to meet the needs of the Trade. We are in a favourable position to produce all types—machine made—at highly competitive prices and of a quality second to none.

We shall welcome your enquiries. Phone : Trafford Park 0814-5

**FREDK. HAMPSON LTD.**  
PERSEVERANCE GLASS WORKS,  
SALFORD, 5

MEDICALS  
POISONS  
PERFUME  
EMBROICATION  
etc. etc.

Plain or  
Screw-Cap  
Necks



British Made  
*"Adaptocaps"*  
for all  
your  
bottle  
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**The London Capsule Co.**  
EMPIRE WORKS, MITCHAM RD CROYDON  
TELEPHONE : THORNTON HEATH 3014 TELEGRAMS : "METACAP, CROYDON"

# CORKS, STOPPERS, ETC.

WHOLESALE & EXPORT.

Send us your enquiries  
and compare our prices.  
We manufacture corks  
of every description.

*Established 1844*

**C. OLLEY & SONS LTD.**  
Camperdown St. & Great Alie St., London, E.1.  
Telephone : Royal 2868. Telegrams : Circumference, Edo, London.

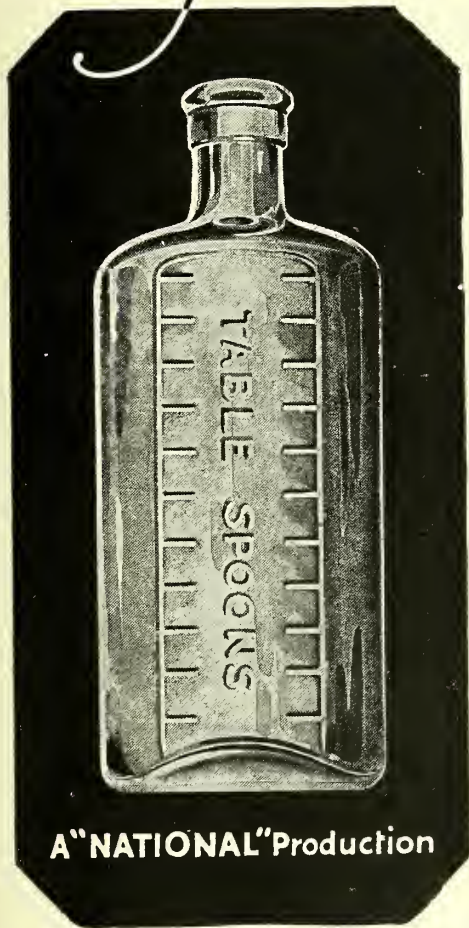
**METALLIC CAPSULES**  
for all kinds of bottles, etc.  
**The Tonkin Metallic Capsule Co.**  
Proprietors : C. Olley & Sons Ltd.



# "National"

## Dispensing Bottles

*are Strong, Serviceable and Suresealing!*



A "NATIONAL" Production

**NEATLY PACKED IN 3 AND 6 DOZEN SIZE, NON-RETURNABLE CARTONS**

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUANTITY

CARTONS OF EITHER 3 or 6 doz. BOTTLES THROUGHOUT THE RANGE

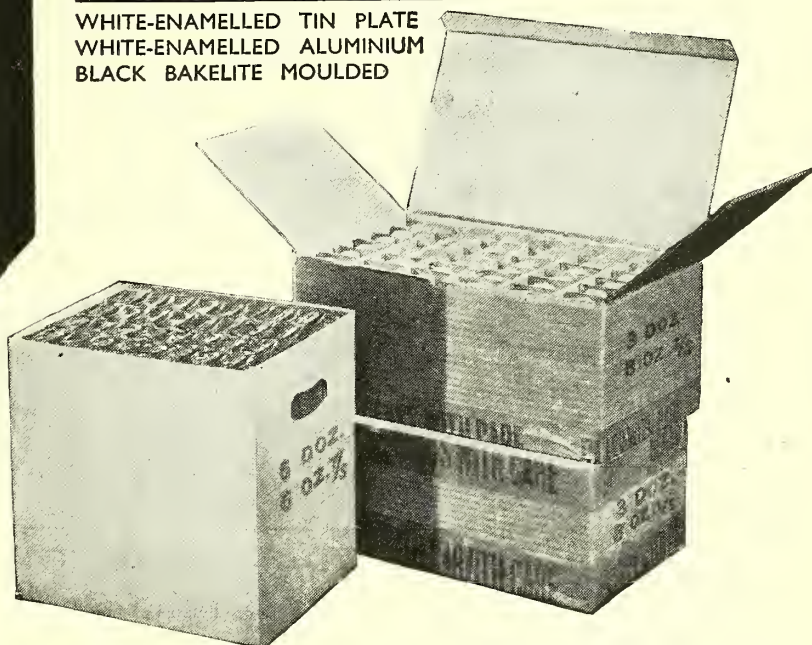
ALSO

Cork mouth Bottles WASHED & PAPERED

Screw " " WASHED & CAPPED

SCREW CAPS SUPPLIED in

WHITE-ENAMELLED TIN PLATE  
WHITE-ENAMELLED ALUMINIUM  
BLACK BAKELITE MOULDED



*May we advise  
Name and Address of  
your nearest  
"National"  
distributor?*

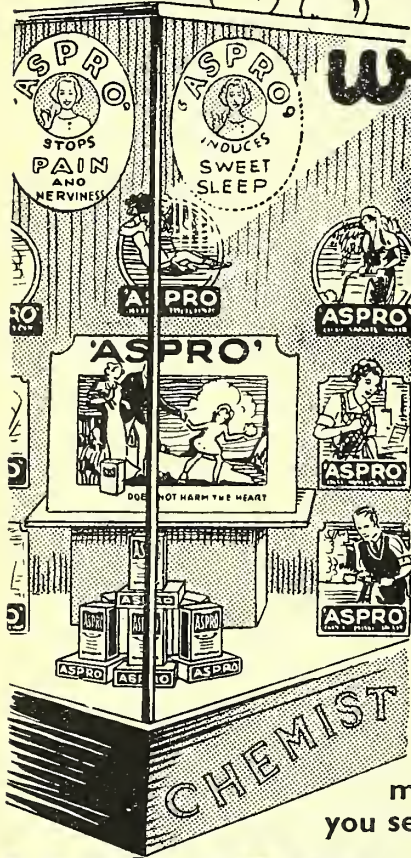
**NATIONAL GLASS WORKS (YORK) LTD.** WORKS: FISHERGATE, YORK

'Phone: HOLborn 2146

First Avenue House, High Holborn, London, W.C.1  
(WHOLESALE ONLY)



# Tell them in your window that **YOU** stock 'ASPRO'



When you put 'ASPRO' advertising matter in your window you attract customers to your shop. Your general sales benefit. Remember, large space 'ASPRO' Advertisements are carried several times monthly by over three hundred papers, with a total circulation of over 32,000,000. You get your share in the sales activity created by this advertising when you show 'ASPRO' advertising material — just as if you spent a proportionate amount of money on the advertising yourself. We suggest you send for an 'ASPRO' display to-day.' Remember,

## 'ASPRO' ADVERTISING produces the customers 'ASPRO' DISPLAYS bring them in

use these  
'ASPRO'  
aids to  
SALES

**CHEMISTS ENVELOPES AND BAGS**  
Kristal Envelopes 2/6 per 1,000.  
Grease proof 2 oz. bags 1/- per 1,000.  
Cash with order.



WINDOW STICKERS



GIANT CARTON



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by  
**ASPRO LIMITED**  
SLOUGH, BUCKS.

Telephone: Slough 608

No proprietary right is claimed in the method of manufacture or the formula.



### AVAIL YOURSELF OF THE 'ASPRO' BONUS

#### BONUS ON 5's & 10's

One gross order ... Bonus 1 dozen packets  
Half gross order ... Bonus 1/2 dozen packets  
Half gross of either size is the minimum order accepted for bonus purposes

#### BONUS ON 25's

One Gross order .. Bonus 2 dozen packets  
Half Gross order .. Bonus 1 dozen packets  
Quarter Gross order Bonus 1/2 dozen packets  
Quarter gross is the minimum quantity

NO BONUS ON 60's

#### BONUS CONDITIONS—

The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.





# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

AUGUST 29, 1936

28 ESSEX STREET, LONDON, W.C. 2

## ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL, PREMISES TO LET** and for **SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**SITUATIONS OPEN**—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**SITUATIONS WANTED**—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**LEGAL NOTICES, TENDERS, AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

**MISCELLANEOUS (Wholesalers' Section)** for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

**EXCHANGE COLUMN** (for Retailers, etc.)—**Twopence** per word, minimum 2/- (Box No., 1/- extra.)

**REPLIES FROM ADVERTISERS**—1/- per line; 3 lines 2/6.

**THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2**  
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

## CLOSING FOR PRESS

must reach us  
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for  
insertion in this Supplement

# ORRIDGE & CO. 56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

- 1.—LONDON, S.W.—Old-established Good and Middle-Class Retail and Dispensing Business; takings last year approached £3,400; net profit £850; living accommodation available; long lease at very low rental; price all at £2,600; Vendor has purchased a business in the country.
- 2.—CATFORD.—Middle-Class General Retail Business; established over 30 years; returns last year £1,877; net profit £632; nice living accommodation with three bedrooms; held on Lease; price £1,350 all at or near offer.
- 3.—VICTORIA.—Good Class General Retail Business; established about 3 years ago; takings present rate average £30 per week; stock worth £350; lock-up shop; price asked £800 all at or near offer; Vendor leaving Pharmacy.
- 4.—LONDON, W.C.1.—High-Class Retail and Dispensing Business; takings over £60 per week; rent £250, sublet £175; long lease; stock worth about £1,000; valuable fixtures; price all at £2,500 or valuation terms entertained; genuine reason for sale.
- 5.—HOUNSLOW.—High-Class Business with excellent living accommodation over; returns about £1,500 per annum; gross profit £525; very attractive shop; premises can be bought or leased at reasonable rental; price of business £300, plus stock and fixtures at valuation, or alternatively £1,100 all at.
- 6.—STREATHAM.—Branch Business for disposal; takings average over £60 per week; good profits; Accountant's figures; rent £250 per annum; held on Lease; stock worth about £750; very nice fixtures; price £1,750 all at or £500 for the Lease and Goodwill, plus stock and fixtures at valuation.
- 7.—CRICKLEWOOD.—Branch Business for disposal, Middle Class; Photographic; established 10 years; returns present rate £15 per week; scope for large increase; good-sized shop; very nicely fitted; fixtures cost £400 10 years ago; stock worth about £250; sublets amount to £90 per annum; rent £140; held on Lease; price for immediate sale £450 all at; ill-health reason for disposal.
- 8.—TEDDINGTON.—Retirement vacancy; General Retail Business with small Optical connection; takings last year exceeded £1,550; gross profit £505; modern double-fronted shop; spacious living accommodation; price £650, plus stock at valuation, in all about £900.
- 9.—FOREST GATE.—General Retail Business situate in good position; modern shop front; takings about £1,400 per annum; rent £75 per annum inclusive of rates; long lease; living accommodation available if required; price all at £750 or valuation terms entertained.
- 10.—PENGE.—General Retail Business for sale owing to ill-health; takings £1,300 per annum; net profit £380-£400 per annum; heavy stock;

attractive fixtures; very low rental; price £900 all at or near offer; scope for increase.

11.—ESSEX (MARKET TOWN).—Country Retail Business; returns average £1,650 per annum; net profit (Income Tax figures) £650; rent and rates £50 per annum; price to include Book debts £1,350.

12.—BERKSHIRE.—Country Retail Business; Good Class Clientele; takings present rate about £16 per week, increasing; fixtures by Maws; clean stock; shop cost the proprietor £670 to open 18 months ago; price all at £660 or valuation terms entertained; genuine reason for disposal.

13.—BIRMINGHAM.—For immediate sale by lady; Light Retail Business offering scope for increase; takings average £15 per week; excellent profits; stock and fixtures estimated to be worth £550; rent £40 per annum; nice living accommodation with garage; price all at £650 or £700 for the Lease and Goodwill, plus stock and fixtures at valuation.

14.—MIDDLESEX (NEW SUBURB).—Good Class Business offering scope for increase; takings last year exceeded £1,300; gross profit nearly 36 per cent.; living accommodation if required (at present sublet); fixtures excluding shop front cost £317; stock worth about £275; price asked £900 all at or near offer, or valuation terms entertained.

15.—PLYMOUTH.—Branch Business for disposal owing to ill-health; rent and rates £40 per annum; lock-up shop; stock worth £200, fixtures £100; Neon sign; takings £900 per annum; premises situate in advantageous position; price all at £350.

16.—MANCHESTER.—Good Class Retail Business; established about 18 months; increasing turnover, present rate being about £20 per week; gross profit 40 per cent.; stock and fixtures worth £518; self-contained flat over; nice garden; reasonable rent; price £550 all at or near offer.

17.—SOUTHEND-ON-SEA.—General Retail Business in excellent position; turnover £1,800 last year; lock-up shop; long lease at £175 per annum; ample opportunities for further development; price to include Lease, Goodwill, stock and fixtures £1,000.

18.—WORCESTERSHIRE.—High-Class Retail and Dispensing Business in present hands over 30 years; turnover approximately £4,500 per annum; net profit about £900 per annum; stock and fixtures worth £2,700; prospective purchasers with £4,250 at command may apply for further particulars.

19.—SURREY (FEW MILES OUT).—Middle-Class Family Retail Business in present hands 8 years; takings average £23-£25 per week; net profit £350 per annum; stock and fixtures worth about £550; living accommodation over with bathroom; new Lease at £70 per annum; price all at £750 or near offer; ill-health reason for disposal.

## Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.



# ERNEST J. GEORGE & Co.

Bank Chambers, 329 High Holborn, London,  
Telephone Nos.: Holborn 7406 & 7407 (2 lines) W.C.1

15 Bridge Street, Walsall Telephone: Walsall 3774

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) SOMERSET.—Good family business, with living accommodation; turnover for last financial year, upwards of £1,750; price, including leasehold property, approximately £1,400, part of which might possibly be raised on mortgage, if necessary; please supply Bankers' references in first instance.

(C2) LONDON, N.W.—Old-established, good-class business, for sale owing to retirement; present returns £1,050/£1,750 per annum, with scope for considerable further increase; very reasonable rental which includes limited residential accommodation; price by arrangement; to the right type of prospective purchaser, the owner would consider a temporary partnership arrangement, with a view to succession, or might be prepared to allow a portion of the purchase money to remain over for a reasonable period.

(C3) NORWOOD.—Old-established family business with large N.H.I., now doing at the rate of approximately £1,225 per annum, but these figures should be capable of a fair amount of augmentation; rent and rates, inclusive of house above, £74 per annum; price £750, or near offer.

(C4) SOUTHPORT.—Good middle-class business with some optics, which can either be taken over or otherwise; turnover for last financial year £1,100; good scope with personal interest and attention; for a quick sale will accept approximate value of stock and fixtures only.

(C5) KENT COAST.—Attractive, modern lock-up Pharmacy, situated in growing area; turnover for last financial year, £1,231, and steadily increasing; branch surgery near by; good scope under personal proprietorship; price £650 or reasonably near offer.

(C6) EDGWARE ROAD (NEAR).—Lock-up Pharmacy with steadily increasing turnover; returns for last year, £1,364; rent and rates approximately 22/- per week only; reasonable purchase price, part of which might remain under approved circumstances.

(C7) LONDON, S.E.—Main road Pharmacy, with up-to-date self-contained flat; increasing turnover, now at the rate of approximately £1,250 per annum, and well capable of considerable augmentation, particularly when building operations in the near vicinity are completed; rent £110; genuine reason for selling; approximately £500, or near offer, will probably secure; further details upon application.

(C8) HARROW (NEAR).—Attractive modern Pharmacy, with sub-post office, situated in rapidly growing good-class district; no opposition or likelihood of same; steadily progressive turnover, now at the rate of over £20 per week, and will undoubtedly show a very substantial increase during the next two years; excellent opportunity for chemist possessing foresight and initiative; price approximately £900.

(C9) BIRMINGHAM SUBURB.—Old-established Pharmacy in good

position; turnover £1,100; rent and rates (living accommodation) £167; property purchasable at £750; ground rent £15; total price £700, including stock £375 at valuation, fittings £300, goodwill £25; house could be used for optics, chiropody or hairdressing if desired.

(C10) KINGSTON-ON-THAMES (NEAR).—Main-road Pharmacy with living accommodation, situated in growing district; average turnover approximately £1,000 per annum; rent £65; business easily worked; price £500 all at, or reasonable offer.

(C11) BUCKS.—Lock-up Pharmacy with large N.H.I., at present under management; now doing approximately £20 weekly; rent, including rates, £52 per annum; good scope for considerable increase under personal proprietorship; price £675, or reasonable offer.

(C12) SOUTHAMPTON.—Pharmacy with living accommodation (optional), situated in good-class district, can be acquired at "bargain" figure for quick transaction; now doing at the rate of approximately £17 per week, with scope for substantial increase; low rental; for a quick sale, £250 all-at will be accepted.

(C13) BRIGHTON.—Old-established middle-class business (not seasonal) can be acquired for an immediate transaction on payment of a sum in the region of £250-£300; pharmacy attractive and well fitted; living accommodation if required; turnover capable of substantial increase; unique opportunity for chemist with limited capital; further details upon application.

(C14) CHESHIRE (RETIREMENT VACANCY).—Old-established business with living accommodation; no immediate opposition; turnover upwards of £1,250 per annum; net profit £375; very low rental; large N.H.I.; price £850, including stock and fixtures estimated at £540.

(C15) WIMBLEDON.—Drug Store showing present returns of approximately £110 weekly; good scope, particularly under qualified proprietorship; low rental; thickly populated area to draw upon; price approximately £250 all-at.

(C16) ELEPHANT AND CASTLE (NEAR).—Drug Store occupying prominent position in busy main thoroughfare; present returns approximately £12 per week, with excellent scope and opportunities, particularly under qualified proprietorship; low rental; for sale owing to ill-health and retirement; £300 is asked, but the first reasonable offer will be accepted; stock worth over £200.

(C17) FIFESHIRE.—Established retail business, with good scope for further development; turnover for 1935-36, £985; net profit £250; very low overheads; price £625 all-at, but any reasonable offer will be considered.

(C18) LONDON, N.—Lock-up Pharmacy situated in populous working-class district; increasing turnover, now at the rate of £800/£1,000 per annum; rent £60; no near opposition; price £460, or near offer.

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## BUSINESSES FOR DISPOSAL.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**BRIGHTON.**—Same hands 14 years; now running as Drug Stores following death of owner, M.P.S.; busy main district, tram route; big scope for increase; good N.H.I. possible; Kodak Agency; Wine, Optics could be added; house, with four rooms, and garden; low rent and rates; price £350. 83/52, Office of this Paper.

**BRIGHTON.**—Unique offer; owing to private circumstances an old-established Business situated in a busy main thoroughfare (non-seasonal) can be acquired for an immediate transaction, at bare value of stock and fixtures only; approximately £350 will purchase, part of which might, if necessary, remain; living accommodation on premises; reasonable rental; excellent scope and possibilities; attractive well-fitted Pharmacy; genuine prospective buyers of such a proposition at a really bargain figure should apply immediately for particulars. 286/370, Office of this Paper.

**CLAPHAM (near).**—Old-established middle-class Retail Business with good Agencies; Panel exceeds £7 per week; takings this year exceeded £3,350, gross profit £1,340, net profit £850, accountant's figures; house over shop well decorated; very long lease at £104 per annum; lowest price £2,600 all at; early sale desired as proprietor has purchased a business in the country. 286/375, Office of this Paper.

**ESSEX.**—Main road; next door doctor's surgery; at present Drug Store; established 3 years; nearest chemist one mile; growing district; rent (including 5 rooms, available if required) £1 weekly; good all-round business (excellent in season); Photographic Agency; certain opportunity for Qualified man; £200 plus stock and fixtures, £100. Apply 84/11, Office of this Paper.

**KENT.**—Good-class attractive Business for Sale in main shopping thoroughfare; takings last year nearly £1,500, has done £3,200; rent £70 p.a.; in same hands 17 years; fine mahogany fittings; many profitable proprietaries; comfortable living accommodation; price £1,100, all at; good reasons for selling. 83/41, Office of this Paper.

**LANCASHIRE.**—£850 buys really good Property, Business, Fixtures and Stock; splendid position on main road; giving up Retail, Kodak and Ucal agencies; good opportunity for smart man with capital or multiple firm; property and position worth the price asked. Full particulars apply 83/16, Office of this Paper.

**LINCS.**—For disposal, Drug and Agricultural Business; late owner retiring; returns £1,400 to £1,500 per annum gross; audited accounts and all books open to inspection; price £550; references exchanged. Apply 286/376, Office of this Paper.

**LONDON, N.**—Old-established Drug Store; takings average £14 per week under inexperienced female management; good scope for Qualified person; attractive shop; good accommodation, partly sublet, producing £75 per annum; rent £104; approx. stock £120-£130; £300 all at. 84/19, Office of this Paper.

**LONDON, S.E.**—Established Business for immediate disposal, on valuation terms; approximate purchase price £300; busy district; returning £12-£14 per week, plus N.H.I.; lock-up shop; no reasonable offer refused. S. F. Clark, Chemists' Transfer Agent, 34 Marksbury Avenue, Richmond, Surrey.

**LONDON, S.W.**—Good middle-class Retail Business with large Panel, Kodak, Innox, Rexall agencies; returns 1930 approximately £3,400; long lease at low rental; good profit; accountant's figures. 83/26, Office of this Paper.

**NORTH MIDLANDS.**—Elderly Chemist wishes to retire before the winter; Middle-class Cash Business; N.H.I., Optics and Prescribing; average net profits for the last three years £547 on an average turnover of £1,880; accountant's figures; good roomy house; two-storied warehouse; rent £70; lease or sell. 82/16, Office of this Paper.

**WEST SOMERSET** branch, lock-up Shop with a nice window to cultivate a good passing trade; situate on main road to a large neighbourhood; overhead expenses about £52 a year; good investment for owner-proprietor; £375 including stock, fittings and goodwill. 83/19, Office of this Paper.

**DRUG STORE.**—Capable of great expansion; has been good-class Chemists' and Opticians' Business; double-fronted shop; busy main road, East London district; sound reasons for selling business; good living accommodation; low rent; long lease. Apply 85 Roman Road, Bow, E.

**DRUG Store**, established 1914, for Sale; in main thoroughfare; lock-up; well fitted; two rooms over shop; big scope for Qualified; average returns three years £1,000; owner wishes to retire; £200; stock at valuation. 286/368, Office of this Paper.

**EXCEPTIONAL Opportunity** for young Pharmacist to acquire Business in Middlesex, established six years, for valuation of stock and fixtures only; situate in busy main road; returning £14-£15 per week, plus N.H.I.; living accommodation and long lease; at present under management, but would appear to show prospects for proprietor-manager; approximate purchase price £250. S. F. Clark, Chemists' Transfer Agent, 34 Marksbury Avenue, Richmond, Surrey.

**EXCEPTIONAL Opportunity** occurs to secure two progressive and flourishing businesses situated in a popular seaside resort on the Lanes coast; turnover combined over £5,000 and still increasing; further details will be given at interview only; would sell separately; no agents, please; reasonable price for a quick cash sale. 79/2, Office of this Paper.

**FOR SALE.**—Drug Stores and Surgical Business with Hairdresser's attached; separate shops; good living accommodation; garage, bathroom; electric light; audited accounts; property for sale; good mortgage; only genuine clients entertained. Address 120 and 120A Central Drive, Blackpool.

**MAIN-ROAD Business** at popular North-East Coast holiday resort; old established, with good Photographic and Private Dispensing connection; rent and rates £52 per annum; takings £920; price £400 for quick cash sale. 286/365, Office of this Paper.

**OLD-ESTABLISHED Drug and Herbal Store** for sale (South London); genuine proposition for bona fide purchaser; accounts on view; £300 plus s.a.v. Write, 84/25, Office of this Paper.

**PROPRIETARY ARTICLE.**—Small Manufacturing Business for sale. Apply, P.C.B. 215/5, Office of this Paper.

## BUSINESSES WANTED.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**CHEMIST'S Business** (or Drug Store) with Sub-Post Office wanted in Southern England and West of London; advertiser is in no immediate hurry if a suitable opening is not at present available, but would be pleased to hear from a present proprietor who has contemplated retirement. 82/20, Office of this Paper.

## PREMISES TO LET.

**EAST HORSLEY** (between Leatherhead and Guildford).—An excellent opportunity for a Chemist who wishes to create a personal and good-class practice; Shop to Let in handsome terrace of nineteen, in good and improving business position; rent of shop, with two self-contained flats over, only £155. Apply Frank H. Chown, Horsley Towers Estate Office, East Horsley.

**DOUBLE-FRONTED Shop**, 35 ft. deep; busy main road; popular suburb, 50,000 population. There are 50 modern flats over and adjacent (all let); rent £90 p.a. plus rates first seven years, first year concession; 21 years' lease granted. Sole Agents, Melhuish & Henson, 8 Morden Court Parade, London Road, Morden. Mitcham 4176.

**OPPORTUNITY OCCURS** to establish a Business in a well-developed and rapidly growing district near Hounslow; only 4 shops now left on a Parade which occupies a commanding main-road corner position; a Chemist is urgently needed by the district and should be instantly successful; the accommodation comprises large sales shop and a self-contained flat above of 4 good rooms, kitchen, bathroom, etc.; the rent is £125 per annum exclusive on lease. Apply to John Allsop, Sole Agent, 433 Great West Road, Hounslow. Tel.: Hounslow 2620.

**SHOP to Let** in new terrace in fine developing district, Leigh-on-Sea, Essex; no opposition; fine opportunity for a Chemist; splendid living accommodation; moderate rent; early application advised. Full details apply "Owner," 22 Medway Crescent, Leigh-on-Sea. Phone 7385.

**TWO Shops to Let** in fine main-road positions at Mitcham, Surrey, and Gravesend, Kent; ample scope for Chemist and Photography; with or without accommodation; rental from £52 per annum. Apply Owner, "Unity" House, Dartford Road, Dartford, Kent.



## AGENCIES.

**AGENTS** on Commission required for sale of world's best Safety Razor and Blades; only live men need apply. "Razors," Wm. Porteous & Co., Glasgow.

**DUTCH** Factory of Dressings, existing more than 50 years, wishes to get in touch with English Manufacturers in the Pharmaceutical, Cosmetic, Perfumery and Associated Industries in order to obtain the Sole Agency of their articles fit for Holland; manufacturers must be prepared to support the introduction of their articles by a widespread advertising in Dutch papers. 286/364, Office of this Paper.

## PATENTS.

**THE** Proprietors of British Patent No. 376,806, relating to Polymethylenediguanidine Laxatives, are desirous of entering into arrangements to secure the commercial development of the invention and are willing to grant Licences for the manufacture of the laxative or to dispose of the Patent Rights. Enquiries should be addressed in the first instance to O'Donnell, Livsey & Co., Chartered Patent Agents, 47 Victoria Street, London, S.W.1.

## TENDERS

**SEVERALLS MENTAL HOSPITAL, COLCHESTER.**

**THE** COMMITTEE OF VISITORS invite TENDERS for the supply of DRUGS AND DRESSINGS for the six months ending 31st March, 1937.

For Form of Tender apply, enclosing stamped addressed envelope, to the Clerk of the Hospital, Severalls, Colchester.

Sealed tenders must be received NOT LATER than 12th September, 1936, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee do not bind themselves to accept the lowest or any tender.

## SALE BY AUCTION.

**KING'S LYNN, NORFOLK.**

**SAMSON & ANDERSON** are instructed to Sell by Auction at the "Globe" Hotel, King's Lynn, on WEDNESDAY, SEPTEMBER 9, 1936, at 7 p.m.,

**THE VALUABLE FREEHOLD CORNER BUSINESS PREMISES** known as No. 17 High Street, King's Lynn, situate in the main shopping thoroughfare of the borough, having a frontage of 14 ft. 6 in. and a return frontage of 101 feet. For many years occupied as a Chemist's Business, and the Stock and Fittings may be taken at Valuation if required. Vacant Possession. Particulars and Conditions of Sale may be obtained from Samson & Anderson, Auctioneers, 9 Portland Street, King's Lynn (Tel. 2544), or from Jackson & Jackson, Solicitors, Bank Chambers, King's Lynn.

## SITUATIONS OPEN.

### RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**BRIGHTON.**—Vacancy for young Qualified Assistant (male) in high-class Dispensing establishment; permanent; applicants must be of good appearance and address. Please give full particulars and photo in first letter. 286/366, Office of this Paper.

**BRIGHTON.**—Well-experienced Manager wanted at once (28-35); good Photographic knowledge essential. Send full particulars and enclose photo (to be returned), Edgar Jones, 94 Preston Drive, Brighton.

**CHELMSFORD, Essex.**—Smart male Junior Assistant required in one month's time for main street branch; must be good Dispenser and have had Window-dressing experience. Apply, stating age, experience, height, copy references, salary required and when free, to T. Bellamy, Pharmaceutical Chemist, 2 Tindal Square, Chelmsford.

**EAST COAST.**—Improver or Junior required, male; live indoors. State age, height and usual particulars; small town. 83/51, Office of this Paper.

**HAMMERSMITH.**—Qualified Manager (25-40) required in September; good all-round man; permanency. Please state height, age, experience, salary required and recent references to Douglas, 127 Brackenbury Road, W.6.

**KENSINGTON.**—Unqualified gentleman (under 30) required for high-class Dispensing business. Please state usual particulars, when disengaged and salary required to 83/1, Office of this Paper.

**LIVERPOOL.**—Unqualified Assistant (male). Kindly state full particulars of experience, age, height and salary required to R. & J. Herman, Chemists, Aintree, Liverpool.

**LONDON, N.W.**—Wanted, Lady Assistant, Unqualified (25 to 30), capable Dispenser and accustomed to a good-class Counter trade, particularly in the better-class Toilet preparations. Please give full particulars of experience, age, salary and when disengaged to 286/374, Office of this Paper.

**LONDON, W.4.**—Wanted, Junior Assistant (male), Unqualified, for good-class Dispensing and Family business. Apply, with full particulars, 83/6, Office of this Paper.

**LONDON, WEST.**—Qualified Assistant, also Unqualified Junior, for Good-class West-End Business; opportunity for keen men to gain experience. Write, stating age, experience, when disengaged, and salary required, to G. H. Pierson, 94 Queen's Road, Bayswater, W.2.

**MANCHESTER.**—Qualified Manager required shortly for branch; must be energetic, capable Salesman and Window-dresser; good prospects for worker. Reply, stating age, experience, references, etc., wages required, Photo if possible and when free, to 79/4, Office of this Paper.

**MANCHESTER.**—Young, Qualified, for branch, working-class district; used to quick Counter and N.H.I.; permanency. State age, experience and salary and when free to Tomlinsons (M/C), Ltd., 21 and 23 Embden Street, C.-on-M., Manchester, 15.

**MIDLANDS.**—Three Unqualified Assistants, either sex, required immediately; good prospects with progressive firm. Give fullest particulars, age, salary, etc., send photograph, state when free. 83/18, Office of this Paper.

**OXFORD.**—Qualified Manager wanted at once for Middle-class Business doing fair amount N.H.I. work; living accommodation available; salary and commission given; enclose photo with full particulars. Oddy & Co., Chemists, 53 St Clements, Oxford.

**PUTNEY HILL.**—At once, Junior Assistant (male), outdoors, Unqualified; well up in Dispensing. Mr. Framingham, T. Jones & Co., 5 Putney Hill, S.W.15.

**SURREY.**—Unqualified Assistant (25-30) required for September 21; experienced Dispenser and Counterman essential; permanency. Reply, giving full particulars of experience, age, height and salary required, 83/50, Office of this Paper.

**SURREY** (20 miles London).—Experienced Lady Assistant (unqualified); good Counterhand with personality, also Window-dresser. State age, experience, salary, etc., and send references with first application. Statim, c/o Wright, Layman & Umney, Southwark Street, S.E.1.

**WEST OF ENGLAND.**—Qualified Assistant; light duties; easy hours; or part time could be arranged; suit elderly gentleman or one requiring time for study. Apply with full particulars, giving references and salary required, 82/5, Office of this Paper.

### PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.



**C**OMPETENT Lady Assistant required in good-class Family and Dispensing Business; Window-dresser and able to keep accounts; qualification unnecessary if otherwise competent. Replies in first instance to 84/12, Office of this Paper.

**D**ISPENSER required in London suburb, Junior entertained; little Clerical work. Address age, salary and experience to 84/26, Office of this Paper.

**E**XPERIENCED Male Assistant required for Drug Department. Apply Burgis & Colbourne, Ltd., Bedford Stores, Leamington Spa.

**I**MMEDIATELY.—Male Assistant, thoroughly experienced, well up in sales, for modern West-End Pharmacy. State full particulars, age and salary required to 84/14, Office of this Paper.

**J**UNIOR Assistant, chiefly for Dispensing, for Milford branch, required middle of September; permanency; must be thoroughly reliable Dispenser; lady or gentleman. Kirkman, Chemist, New Milton.

**L**ADY Assistant required; good Dispenser and Counterhand. Full particulars and salary required to Saunders, Dispensing Chemist, Braintree, Essex.

**L**ADY Assistants required, one Qualified, one Unqualified; must be experienced and capable; please give full particulars in first letter; good wages; excellent positions for those willing to work. Apply in confidence, Birmingham Chemist, 84/5, Office of this Paper.

**L**ADY Dispenser with knowledge of Typing and Book-keeping required immediately by a firm of Doctors in Westminster; salary £60 per annum; live in. Apply, stating usual particulars, to 83/45, Office of this Paper.

**L**OCUM.—Qualified lady or gentleman for four weeks, Sept. 7 to Oct. 3, for N.H.I. Dispensing and general Counter work. Full particulars, salary required outdoors, two recent references, J. Marlar & Son, Ltd., 49/51 High Street, Halstead, Essex.

**L**OCUM.—Qualified, male, for fortnight from Aug. 31 or Sept. 7 or Sept. 14. Send usual references and state terms to Freeman, St. Peter's Street, St. Albans. 'Phone 735.

**L**OCUM.—Reliable Unqualified Lady or Gent. required for about 3 weeks from August 31 for Dorchester, Dorset. Apply, full particulars, to Smith, 80 Battersea Bridge Road, S.W.11.

**M**ANAGER (under 30 preferred), Qualified, for busy branch business in North London; real prospects, in addition to good commencing salary, to keen and competent man. Please give full particulars, age, height, etc., and photo, if available, to 84/23, Office of this Paper.

**M**ANAGER.—Young Pharmacist for small branch business; sole charge; personality essential; salary 70s. per week to commence, later commission. Give fullest particulars in first letter, enclose photo if possible (returned). Reply to "Berkshire," 83/11, Office of this Paper.

**P**ART-TIME, 2 or 3 evenings weekly, elderly Qualified Chemist; duties very light; permanency; Harrow district; state terms. 83/2, Office of this Paper.

**P**ERMANENCY for a Qualified Assistant, Lady or Gentleman; must be capable and energetic. Write, stating experience (if any), age and salary required, to Smith's, Ltd., Highfield Lane, Reigley. Letters unanswered in 7 days declined.

**P. H. H**ALL, Chemist, 13 Clifton Road, Maida Vale, requires a capable Unqualified Assistant (25-35); experienced in highest-class Counter and Dispensing Business; apply by letter only, giving full particulars, to the above.

**Q**UALIFIED Assistant wanted for country business, West of England. Full particulars to 84/27, Office of this Paper.

**Q**UALIFIED Assistant Superintendent; able to take charge if required; must be quick, courteous Counterman; used to first-class Pharmacy; send terms, full particulars, photograph and copy references; commence earliest. Kendalls Chemists Ltd., York.

**Q**UALIFIED Assistant wanted, either lady or gentleman; comfortable and permanent post to suitable applicant; state wage and full particulars first letter; E. Yorks. 76/42, Office of this Paper.

**Q**UALIFIED; evenings from about 6 till 8; South-East London; light Counter and N.H.I. Age and wages required to 83/540, Office of this Paper.

**Q**UALIFIED Lady Assistant; light Retail, Dispensing and Display; kindly state full particulars in first letter; North London. 84/22, Office of this Paper.

**Q**UALIFIED Lady Assistant wanted; Counter experience preferred; state when free and salary required. S. M. Morris, 143 Broadway, Hanwell, W.7.

**Q**UALIFIED lady or gent. required; comfortable berth; permanency or locum, to supervise Dispensing, other assistants kept. Full particulars salary, experience, etc., to 83/23, Office of this Paper.

**Q**UALIFIED lady (or gentleman), young, for light medium-class business; good at Window-dressing and Counter; permanency. Write, Mitchell, Chemist, 6 Lewisham Road, S.E.13. Applications not answered in 5 days respectfully declined.

**Q**UALIFIED Male Assistant required immediately; reliable Dispenser and competent Salesman essential; suit one just Qualified. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, London.

**Q**UALIFIED Man (elderly might do), at once, for West-End Pharmacy; good appearance and reference essential; hours 9-6 for 6 weeks, part time after. 'Phone: SLOane 8747.

**Q**UALIFIED, young, for London, S.E.; light Middle-class Retail and Photographic. Age, wages and usual particulars to 83/54, Office of this Paper.

**Q**UALIFIED (25 to 30), to manage branch; state full particulars first letter; lady not objected to; immediately. Roe, Chemist, Epsom.

**R**EQUIRED at end of September, Junior Assistant, male, single, for middle-class Retail, Dispensing and Photographic business; one well accustomed to N.H.I. desired. Send all usual particulars, references and salary required, with photo, and when disengaged. Applications not answered within 7 days declined with thanks. L. A. James, 6 Grange Parade, Uxbridge Road, Hayes, Middx.

**S**MALLEYS, Chemists, 6 and 8 Carr Street, Ipswich, have vacancy for Unqualified Assistant (20-23 preferred) September 14; permanency to suitable man with experience of good-class Dispensing, Photography and General Counterwork; give full particulars age, experience, salary required, references, first letter.

**S**MART Junior or Improver wanted, September 21, for good-class Family Business; all usual duties. Apply with full particulars, enclosing photo and stating salary required, to E. W. Tayler, Ph.C., Sherborne.

**U**NQUALIFIED Assistant, at once; must be efficient in Window-dressing, Stock-keeping and Dispensing, and smart on Counter. Give full particulars of experience, age, height, references and commencing salary expected, send photo, Smith, 374 Brockley Road, London, S.E.4.

**U**NQUALIFIED Assistant, young, unmarried, wanted for a few months. State terms and send references to Carruthers, Chemists, Horley, Surrey.

**U**NQUALIFIED Junior Assistant required about the end of September for good-class business; must be quick and accurate Dispenser and accustomed to Counterwork; personal interview if possible. Apply with full particulars, T. Beech, High Street, Leatherhead, Surrey.

**U**NQUALIFIED Junior; good Dispenser and Counterman; Surrey. Usual particulars to 285/362, Office of this Paper.



**UNQUALIFIED** Junior (21-23) (male) required third week September; accustomed to good-class Dispensing and Retail Business; applications not answered within 7 days respectfully declined. Please send full particulars of experience and photo, if possible, to Lewis Wing, Ltd., 86 Regent Street, Weston-super-Mare.

**UNQUALIFIED** Lady Assistant for Dispensing, Counter and Window. State age, salary and experience, etc., to "B.," 24 Bridge Street, Pinner, Middlesex.

**UNQUALIFIED** (lady) required, Counter, N.H.I., etc.; one with experience preferred; state salary required; interview granted. "H. B.," 56 Mile End Road, E.1. (STEPney Green 4070.)

**UNQUALIFIED** wanted Tuesday and Wednesday next, with possible extension; N.H.I. experience; references must bear closest investigation. Apply 115 Kennington Road, S.E.11.

**WANTED**.—A smart, up-to-date Qualified man; able to take charge of small branch situated suburbs of Brighton; must be capable Dispenser and obliging. Particulars, salary, age, height, etc., to "Alpha," 83/29, Office of this Paper.

**WANTED** September 21, Unqualified Junior Assistant (about 20); sound apprenticeship essential; S.E. Coast. Apply, sending full particulars, references and photo, to 80/8, Office of this Paper.

**WANTED**.—Unqualified Junior or Improver. Full particulars, age, photo, salary required, etc., W. E. Barker, The Pharmacy, Burnham-Bucks.

**WANTED**.—Young Qualified Assistant; used to quick N.H.I. Dispensing. Apply in person, or in writing, giving full particulars, O. Tobin, Ltd., 48 Harford Street, Mile End, E.1.

**YOUNG** Qualified Assistant, capable, with good experience and references, for modern progressive light Retail Business. Write, phone or call, Venables, 246 North End Road, Fulham, S.W.6. FUL 0992.

**YOUNG** Qualified Assistant required at once. Particulars as to height, experience, salary, to Price, Chemist, 51 Fairfax Road, N.W.6.

**YOUNG** Unqualified male Assistant required at once; Retail. Photo, N.H.I. State experience and usual details, Hatfield, 233 Ashley Road, Parkstone, Dorset.

### WHOLESALE.

**EXPERIENCED** Young Man wanted for Wholesale Perfumery Order Department. Apply Nageles, 8/12 Edward Street, Wardour Street, W.1.

**FOR WORKS**.—Junior (16-21) required by Manufacturing Chemists; some experience of Flavours, Colours, etc., preferred; applicants should reside in E.6 or district. Age, wage and details to 285/363, Office of this Paper.

**MEDICAL** Propaganda.—A well-known London house requires experienced Medical Propaganda Representative for Leeds and surrounding districts; residence on the territory desirable; selected applicants will be interviewed in Leeds. Apply in first instance stating age, salary required, particulars of past experience and present employment and when services could be available, to 286/375, Office of this Paper.

**OLD-ESTABLISHED** Powder Puff Manufacturers require Agent calling Retail trade; not London; wide range attractive designs; commission only; accounts handed over. 83/5, Office of this Paper.

**PASTILLE** and Lozenge Maker wanted; excellent prospects for suitable man with expert knowledge of the Manufacture of Medicated Pastilles and Lozenges; a thorough knowledge of Formulas is essential. Apply, giving full particulars of age, experience and salary expected, to 83/31, Office of this Paper.

**QUALIFIED** Pharmacists of good education and able to drive car required as Representatives and for Propaganda purposes; previous experience of similar work desirable, but not essential. Apply by letter, giving full details, to "J. E. B.," Genatosan Ltd., Loughborough, Leicestershire.

**REPRESENTATIVE** to call upon Medical men and Dentists in London and Suburbs; applicants should give full particulars of their past experience, stating age, whether any connexion on the area named, and if car available. 285/357, Office of this Paper.

**REPRESENTATIVE** with good connexion amongst Hairdressers and Stores in Sussex and Hampshire required to increase our existing turnover for Packed and Bulk Toilets and Beauty Preparations; salary, commission and expenses offered, but own car essential. Write details experience, connection, references, 84/6, Office of this Paper.

**REPRESENTATIVES** wanted with connexion amongst Wholesale and Retail Chemists in the following areas:

- (a) Midlands;
- (b) Yorkshire and adjoining counties;
- (c) West of England;
- (d) Kent, Surrey, Sussex, Hants.

Only reliable and energetic men with genuine references need apply; line nationally advertised and sold by Chemists only; excellent prospects for the right applicants. Write full details, age, experience, if possessing car, etc., to 285/360, Office of this Paper.

**REPRESENTATIVES**, with Provincial connexions, required for all districts England, Wales and Scotland, to open up with Chemists, advertised Veterinary speciality at present sold by post direct to users; remuneration on commission basis. Write, giving full particulars of area covered, additional lines carried, and commission required, to 72/5, Office of this Paper.

**SOLE** Representatives required in Midlands, Yorkshire and North-East Counties for sale of "Prico" Fur Powder Puffs. Apply with full particulars 286/372, Office of this Paper.

**YOUNG** Qualified Man required by London Wholesale House; offers a good opportunity to gain experience of Wholesale trade. State full particulars to 285/361, Office of this Paper.

**YOUNG** Qualified man wanted by London Wholesale Druggist; capable of Manufacture and control of Warehouse on a small scale; salary £250 with future prospects if capital available. 286/371, Office of this Paper.

### COLONIAL, INDIAN AND FOREIGN.

**INDIA**.—Young unmarried Chemist required for Assam. Write, stating age, qualifications, etc., to "X.Y.Z.," 17 St. Helen's Place, London, E.C.3.

**WEST AFRICA**.—Qualified Chemist; single; age 24/26; commencing salary £350 per annum; good prospects to suitable man. Apply, giving full particulars, to 285/344 Office of this Paper.

**WANTED** (East Africa).—Qualified Assistant Chemist, preferably with Optical qualification for extra remuneration; single; age about 35; good health, preferably abstainer; Photographic experience also desirable; 4 years' agreement; commencing £50 rising to £35 monthly; send photo with details record, copies testimonials. Apply 285/341, Office of this Paper.

### SITUATIONS WANTED.

#### RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.**—ASSISTANT (45), tall, Unregistered, good all-round experience, desires berth where genuine capabilities will be appreciated; conscientious and magnetic personality. Haigh, 25 Hetley Road, Shepherd's Bush, W.12.

**A.**—M.P.S., F.S.M.C. (25), single, requires permanency; Optics essential; North Country preferred; reliable, trustworthy; at present Managing; please state remuneration. Evans, 74 Bifron Street, Barking, Essex.

### NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.



**A**SSISTANT; all-round experience Dispensing, Counter, Photo; single, active, elderly; Unqualified; moderate salary. "Statim," 42 Fenton Road, Lockwood, Huddersfield.

**A**SSISTANT, male (28), disengaged, locum or permanent; Irish qualifications; 12 years' all-round experience; excellent reference. Assistant, 18 Clifton Villas, Maida Vale, W.9.

**A**SSISTANT, Unqualified, desires change; tall, energetic, used to quick Counter; reliable Dispenser and Window-dressing; trustworthy; permanency. 83/9, Office of this Paper.

**B**USINESS Builder seeks progressive position; 16 years' all-round experience; free to commence immediately; interview to be arranged; North London suburbs or South Coast preferred. 83/42, Office of this Paper.

**C**HEMIST, experienced, excellent Prescriber, disengaged, desires Management or locum; London, provinces; moderate salary. Drug, 46 Buckley Road, N.W.6.

**E**LDERLY M.P.S. would like one or two weeks' locum from September 15. "Locum," c/o Messrs. Hall & Sons, Chemists, Littleborough.

**E**LDERLY, Qualified, disengaged, desires post as Superintendent, Dispensing, Locum. "Chemist," 59 Coventry Road, Birmingham.

**E**NERGETIC Lady Dispenser, 11 years' varied experience, excellent references, desires post, preferably with Doctor or Institution in Essex; free middle September. Vanstone, "Cotswold," Ashburnham Gardens, Uxminster.

**E**XPERIENCED Dispenser, thorough knowledge of Pharmacy, disengaged in October, desires Senior permanency, London area; interview by arrangement. 77/6, Office of this Paper.

**E**XPERIENCED Manager (35), Qualified, seeks permanency; able, trustworthy, abstainer; highest references; with living accommodation preferred. 83/3, Office of this Paper.

**E**XPERIENCED Qualified Locum; England and Scotland; free August 23; engagements wanted for September. James Lees, Beechwood, New Cummock, Ayrshire.

**L**ADY Assistant Dispenser seeks post; Hall qualification; part or full time; reliable; experienced; Brighton or near. 8 Prestonville Road, Brighton.

**L**ADY Dispenser (19), Hall certificate, seeks post with Doctor or in Hospital. O'Donovan, Union Hall, Leap, Co. Cork, Ireland.

**L**ADY, unregistered; competent Dispensing, Counter, all branches; well recommended; London. 83/541, Office of this Paper.

**L**OCUM, free September 7 to 19 inclusive; highest references, including leading wholesale houses; Unqualified. C, 14 Somerfield Road, N.4.

**M.P.S.**, F.N.A.O. (27), 12 years' experience, Qualified 1930, desires change; permanent and progressive post required. 83/35, Office of this Paper.

**N**IGHT Duty, Relief, one to three nights a week; Qualified (35); smart appearance; all-round West End experience; good Salesman; used to high-class trade, Toilets, Cosmetics, etc. P.C.B. 215/2, Office of this Paper.

**P**HARMACIST, 20 years' all-round Retail experience, offers services in Supervising, Organising or Representative position. Apply, 286/367, Office of this Paper.

**Q**UALIFIED Gentleman (34) desires appointment as Manager in Yorkshire; sound experience and references. "Chemist," Grosvenor Hotel, The Mount, York.

**Q**UALIFIED Manager (38) desires change; a permanent progressive post where good work, experience and tact are appreciated; excellent references; free one month; S.W. London preferred. 84/8, Office of this Paper.

**Q**UALIFIED (M.P.S.) (33), married, excellent all-round experience both town and country, working knowledge Optics, desires change; present position 4 years; good middle-class town or country business preferred in healthy locality; able take full charge; salary required £250 p.a. 83/48, Office of this Paper.

**Q**UALIFIED (33) desires change as Manager end of September; good general experience; excellent references; London and suburbs only. 84/2, Office of this Paper.

**Q**UALIFIED (25) desires Managership or similar position in or near Bristol; knowledge of Optics; 1½ years' Hospital work; at present Managing; free one month; interview if desired. 84/13, Office of this Paper.

**Q**UALIFIED (24), desires position as Manager or Assistant; varied experience; keen; responsibility welcomed. 83/14, Office of this Paper.

**Q**UALIFIED (25) requires permanency as Manager or Senior Assistant; received excellent experience in all branches; good appearance; available September 21; interview if desired. J. Howard Evans, 2 Ladbroke Crescent, W.11.

**Q**UALIFIED (54), single; capable and reliable; all-round experience; references good; accurate Dispenser. "Chemist," 84 Denman Road, S.E.15.

**R**ELIABLE, Unqualified Assistant; 20 years with family chemists; free September 7; Dispensing, Counter, Photography, etc.; permanency. Laurence, 43 Heaton Road, Peckham, S.E.15.

**U**NQUALIFIED, long experience sole control, desirous very light post; nominal remuneration; competent, trustworthy; experienced at Counter and Prescribing. 82/15, Office of this Paper.

**U**NQUALIFIED (26) (Referred Part II) requires locum work from September 6. Gunn, 14 Rhodesia Road, Stockwell, S.W.9.

**U**NQUALIFIED (27), single, 8 years' experience, desires change; Berkshire preferred. 81/1, Office of this Paper.

**U**NQUALIFIED (25), tall, courteous Male Assistant seeks permanency; experienced Dispenser, Counter, Window-dresser, Photographic work. 84/10, Office of this Paper.

**U**NQUALIFIED (23), 7 years' Blackpool experience, brisk Counter, Window-dressing, D. & P., and Dispensing, desires change. 81/6, Office of this Paper.

**Y**OUR SUCCESS DEPENDS ON YOUR MANAGER.—A chance to secure a man who will take the worry out of that branch, make it bright, attractive to customers and profitable to you; young, keen, tall and of good address; thoroughly experienced; free early October; London or suburbs only. 81/2, Office of this Paper.

## WHOLESALE.

**E**XPERIENCED Representative, Pharmaceutically-trained, well known, with a big London connection, is now open to accept post with house of repute or would take 1 or 2 good Agencies; highest references. 286/369, Office of this Paper.

**E**XPERIENCED Representative (39), resident Hants, desires position with well-known Proprietary, Drug or Toilet House; excellent connexion Home, Southern and Western Counties; own car; salary, expenses. 83/32, Office of this Paper.

**G**ENTLEMAN (30), well educated, pleasing personality, would represent Wholesale house, Southern Counties, or consider Agencies; salary and commission; 12 years' Retail experience; own car. 83/13, Office of this Paper.

**G**ENTLEMAN (30), with Qualification and experience, seeks representative position with first-class house; good appearance, requisite personality; resident London. 83/28, Office of this Paper.

**L**ANCASHIRE.—Gentleman (23), Retail and Representative experience, seeks position with progressive firm; interview in London if required. 81/60, Office of this Paper.

**P**ROFESSIONAL/TRADE PROPAGANDA, SALES.—Doctors, Chemists, Licensed Traders; car; long experience; salary and expenses. "Boaz," General Gordon Hotel, Weymouth.



**M.P.S.** (24) seeks position in Publicity Department or on Selling Staff of Wholesale firm; hard work and responsibility welcomed; will go anywhere. 83/140, Office of this Paper.

**QUALIFIED** Chemist (M.P.S.) (26), Retail and Hospital experience (including Continental), speaking German and some French, desires position of trust and responsibility in any capacity, home or abroad; first-class references. Jones, 37 Station Road, Portslade, Sussex.

**QUALIFIED** (65) requires light work; London area preferred; Analytical and Manufacturing experience. 82/19, Office of this Paper.

**SCOTLAND.**—Disengaged Representative; 17 years' valuable connection Chemists, Hairdressers, Stores, etc.; experienced Medical Propagandist; well recommended; car. 82/2, Office of this Paper.

**YOUNG** Man (28), unmarried, with initiative, desires Representative post, home or abroad, with firm of repute; 5 years' secondary school education and 9 years' good-class Pharmaceutical experience; excellent references. 82/10, Office of this Paper.

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**CHEMISTS' FITTINGS.**—New and Second-hand Drug Runs, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

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**THE** Entire Mahogany Fittings and Fixtures of a Handsomely Fitted Pharmacy for disposal, including 10-ft. Dispensing Screen. For particulars and price apply Youngs (Chemists) Limited, 42 Belvoir Street, Leicester.

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